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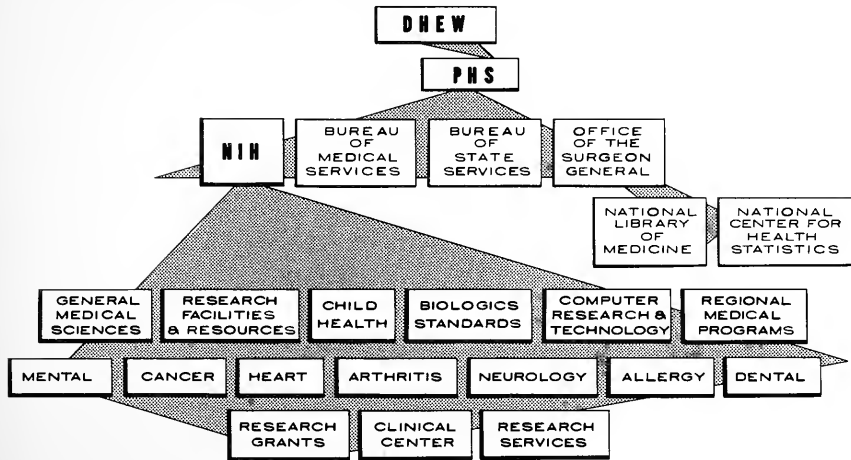
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1966-68

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Prepared by the staffs of the
Office of Program Planning
and the
Division of Research Grants
NATIONAL INSTITUTES OF HEALTH
February 1966

NATIONAL INSTITUTES OF HEALTH



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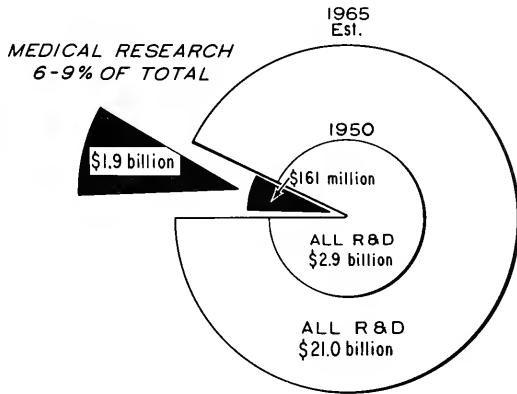
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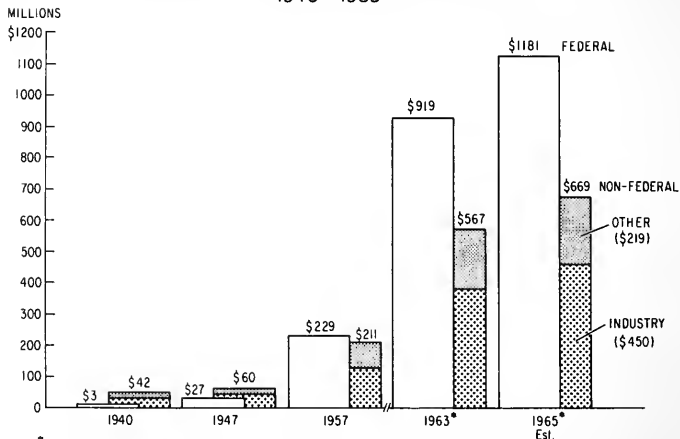
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MEDICAL RESEARCH AS A
PROPORTION OF ALL RESEARCH AND DEVELOPMENT
1950 - 1965



SOURCES OF MEDICAL RESEARCH FUNDS 1940-1965



* Non-Federal data are not strictly comparable with those for prior years, as coverage has been improved.

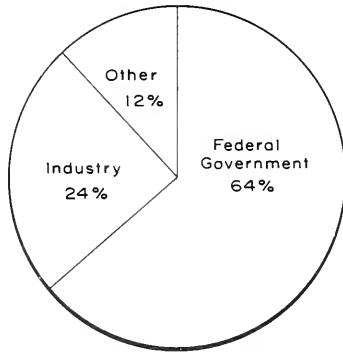
NATIONAL EXPENDITURES FOR MEDICAL RESEARCH, 1940-1965*
(In millions)

Source of funds	1940	1947	1957	1960	1961	1962	1963	1964 est.	1965 est.
Total	\$45	\$87	\$440	\$845	\$1,045	\$1,290	\$1,486	\$1,672	\$1,850
Government	3	27	239	471	604	819	964	1,102	1,235
Federal	3	27	229	448	574	782	919	1,052	1,181
State and local	n.o.	n.o.	10	23	30	37	45	50	54
Industry	25	35	126	253	312	336	375	415	450
Private support	17	25	75	121	129	135	147	155	165
Foundations and health agencies	12	15	42	76	77	78	85	90	95
Other private contributors	n.o.	n.o.	5	12	15	18	21	22	25
Endowment	5	10	19	19	19	19	19	19	19
Institutions' own funds	n.o.	n.o.	9	14	18	20	22	24	26

*Covers only medical and health-related research; such activities as research training and construction are not included. Beginning with 1960, data for the non-Federal component have been improved and therefore are not strictly comparable with those for prior years.

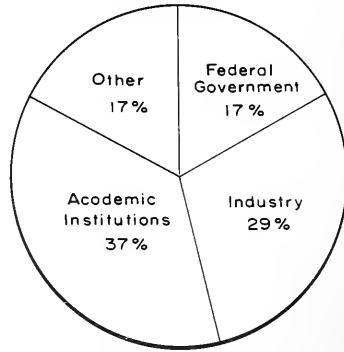
NATIONAL EXPENDITURES FOR
MEDICAL AND HEALTH-RELATED RESEARCH
1965

BY SOURCE



\$1.85 BILLION Est.

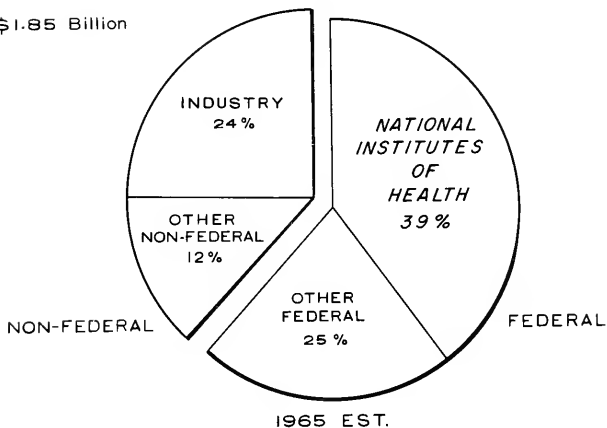
BY PERFORMER



\$1.85 BILLION Est.

NIH FUNDS AS A PROPORTION OF NATION'S MEDICAL
RESEARCH SUPPORT

\$1.85 Billion

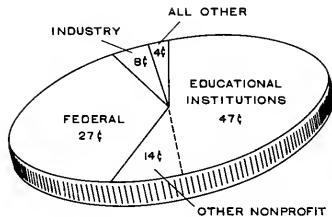


FEDERAL SUPPORT FOR MEDICAL RESEARCH, FY 1947-65*
(Dollars in millions)

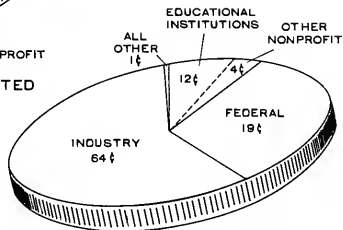
Agency	1947		1957		1960		1961		1962		1963		1964		1965 est.	
	Amt.	%	Amt.	%	Amt.	%	Amt.	%	Amt.	%	Amt.	%	Amt.	%	Amt.	%
Total	\$27.0	100.0	\$228.9	100.0	\$448.2	100.0	\$573.9	100.0	\$782.1	100.0	\$919.0	100.0	\$1051.7	100.0	\$1181.2	100.0
AEC	1.8	6.7	32.8	14.3	50.3	11.2	55.7	9.7	64.7	8.3	74.7	8.1	78.1	7.4	86.0	7.3
Agriculture	2.9	10.7	12.7	5.5	15.0	3.3	18.8	3.3	21.7	2.8	23.3	2.5	27.9	2.7	38.9	3.3
Defense	8.4	31.1	26.2	11.4	41.5	9.3	47.3	8.2	73.7	9.4	88.4	9.6	86.1	8.2	90.6	7.7
DHEW	12.2	45.2	142.3	62.2	310.7	69.3	412.6	71.9	562.1	71.9	641.6	69.8	752.0	71.5	834.1	70.6
(NIH)	(8.3)	(30.7)	(125.4)	(54.8)	(280.6)	(62.6)	(375.4)	(65.4)	(495.4)	(63.3)	(566.0)	(61.6)	(651.0)	(61.9)	(718.5)	(60.8)
FAA	—	—	0.0	0.0	0.8	0.2	1.8	0.3	1.8	0.2	2.9	0.3	2.9	0.3	3.1	0.3
NASA	—	—	—	—	0.9	0.2	4.9	0.9	13.6	1.7	34.2	3.7	42.9	4.1	62.4	5.3
NSF	—	—	3.4	1.5	11.9	2.7	12.1	2.1	15.3	2.0	21.1	2.3	25.5	2.4	23.8	2.0
VA	1.4	5.2	10.4	4.5	15.1	3.4	18.4	3.2	26.8	3.4	29.9	3.3	33.2	3.2	38.7	3.3
Other	0.3	1.1	1.0	0.4	2.0	0.4	2.2	0.4	2.5	0.3	2.9	0.3	3.1	0.3	3.6	0.3

*Covers only medical and health-related research; such activities as research training and construction are not included.

FEDERAL R & D DOLLAR DISTRIBUTED BY PERFORMER, 1965



MEDICAL AND HEALTH-RELATED
(\$1.2 billion)



ALL FEDERAL RESEARCH & DEVELOPMENT
(\$15.0 billion)

FEDERAL AND NIH OBLIGATIONS FOR RESEARCH AND DEVELOPMENT BY PERFORMER, FY 1964
(In thousands)

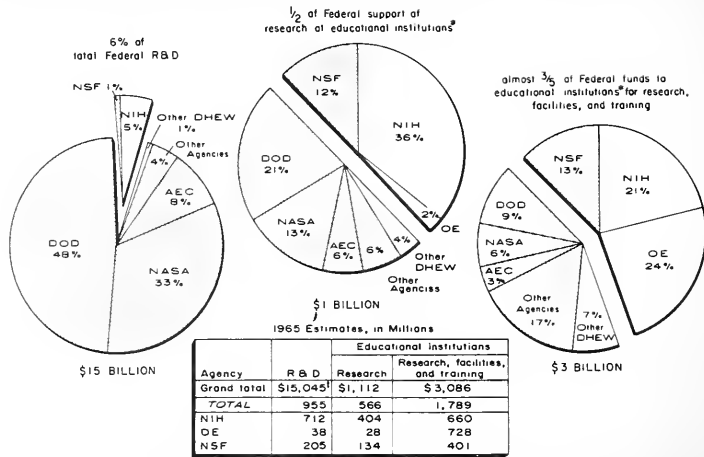
Performer	Federal				NIH			
	Total research & development	Research		Development	Total research & development	Research		Development
		Total	Basic			Total	Basic	
Total, all performers	\$14,132,865	\$4,541,126	\$1,573,903	\$9,591,739	\$651,010	\$651,010	\$250,639	-
United States and Territories, total	14,060,798	4,481,676	1,548,585	9,579,122	633,382	633,382	245,388	-
Federal Government	2,827,678	1,330,870	368,204	1,496,808	108,690	108,690	40,590	-
Profit organizations exclud- ing research centers	8,567,154	1,441,819	310,903	7,125,335	25,437	25,437	-	-
Research centers	492,344	66,684	27,610	425,660	-	-	-	-
Educational institutions, ex- cluding research centers	1,061,381	997,612	551,935	63,769	366,173	366,173	150,395	-
Research centers	543,510	295,157	146,748	248,353	-	-	-	-
Nonprofit institutions, ex- cluding educational insti- tutions and research centers	303,750	233,526	83,146	70,224	122,591	122,591	50,202	-
Research centers	224,803	81,180	47,355	143,623	-	-	-	-
Other performers	40,178	34,828	12,684	5,350	10,491	10,491	4,201	-
Foreign, total	72,067	59,450	25,318	12,617	17,628	17,628	5,251	-

FEDERAL AND NIH OBLIGATIONS FOR RESEARCH BY FIELD OF SCIENCE, FY 1964
(In thousands)

Field of science	Federal			NIH		
	Total	Basic	Applied	Total	Basic	Applied
Total	\$4,541,126	\$1,573,903	\$2,967,223	\$651,010	\$250,639	\$400,371
Life sciences	1,065,355	441,047	624,308	585,452	216,419	369,033
Biological sciences	223,012	142,985	80,027	17,412	17,412	-
Medical sciences	762,729	273,608	489,121	568,040	199,007	369,033
Agriculture	79,614	24,454	55,160	-	-	-
Psychological sciences	96,266	47,241	49,025	32,683	23,938	8,745
Biological psychology	n.a.	n.a.	n.a.	19,006	14,244	4,762
Social psychology	n.a.	n.a.	n.a.	13,677	9,694	3,983
Physical sciences	3,196,267	1,049,879	2,146,388	15,364	3,395	11,969
Chemistry	233,352	92,762	140,590	11,503	2,182	9,321
Mathematics	97,965	52,876	45,089	2,179	783	1,396
Other	2,864,950	904,241	1,960,709	1,682	430	1,252
Social sciences	102,704	34,201	68,503	15,846	5,452	10,394
Anthropology	7,575	7,191	384	1,746	1,700	46
Sociology	16,779	5,368	11,411	10,091	2,401	7,690
Economics	41,385	10,828	30,557	-	-	-
Other social sciences	36,965	10,814	26,151	4,009	1,351	2,658
Other sciences	80,534	1,535	78,999	1,665*	1,435	230

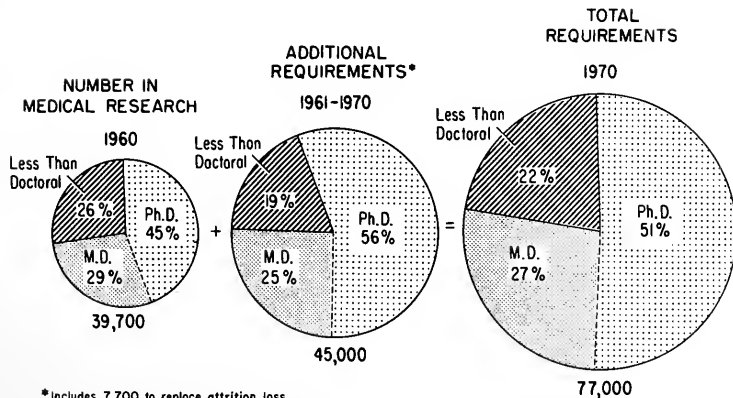
*Includes information processing techniques and cybernetics.

NIH, OE, NSF ACCOUNT FOR —

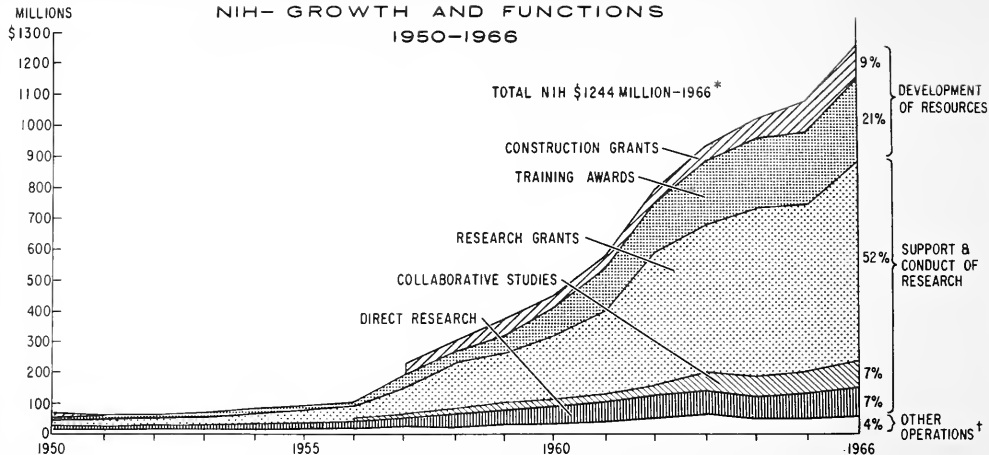


*Excludes university-managed Federal-contract research centers. ¹National Science Foundation estimate as of July 1965.

MANPOWER FOR NATION'S MEDICAL AND HEALTH-RELATED RESEARCH BY DEGREE 1960-1970



NIH- GROWTH AND FUNCTIONS 1950-1966



* Excludes direct construction. † State control programs, biologics control, professional and technical assistance, training, review and approval, and program direction.

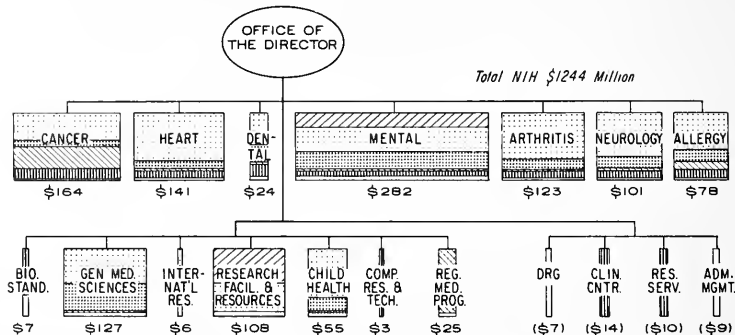
CONSOLIDATED NIH APPROPRIATIONS, FY 1946-1966
(In thousands)

Activity	1946	1950	1955	1957	1960	1961	1962	1963	1964	1965	1966*
Total NIH†	\$3,020	\$52,146	\$81,268	\$213,007	\$430,000	\$577,161	\$771,585	\$930,800	\$974,454	\$1,058,992	\$1,244,406
Grants	850	30,979	54,331	133,544	304,430	440,439	598,998	714,782	758,569	782,199	920,853
Research grants	780	14,066	33,918	89,797	202,948	293,939	433,662	492,805	529,231	545,153	604,377
Regional medical programs	—	—	—	—	—	—	—	—	—	—	24,000
Research fellowships	45	1,448	2,562	5,397	14,570	22,000	29,080	41,638	45,786	48,985	56,330
Training grants	25	6,415	11,051	28,075	75,037	110,000	118,506	154,139	172,602	181,311	209,896
Mental health staffing	—	—	—	—	—	—	—	—	—	—	19,500
State control programs	—	9,050	6,800	10,275	11,875	14,500	17,750	26,200	10,950	6,750	6,750
Direct operations	2,170	15,392	26,937	49,463	95,570	106,722	137,587	166,018	159,885	183,793	217,553
Direct research	2,100	11,300	22,934	34,142	49,885	58,470	69,674	67,434	71,138	77,154	82,728
Collaborative studies‡	—	—	—	4,668	22,142	21,538	35,857	59,806	58,060	74,472	91,460
Biologics standards	—	—	454	1,692	2,805	2,970	3,050	4,000	4,787	4,969	6,806
Prof. & tech. assistance	—	2,538	1,850	5,137	11,558	12,490	11,953	14,139	3,998	4,192	5,637
Training	—	171	50	251	335	339	475	1,221	1,465	1,639	2,107
Review & approval	30	803	1,049	2,789	7,076	8,634	12,799	14,306	15,171	15,532	17,330
Program direction	40	580	600	784	1,769	2,281	3,779	5,112	5,266	5,835	8,768
Computer research and tech.	—	—	—	—	—	—	—	—	—	—	2,717
Construction grants	—	5,775	—	30,000	30,000	30,000	35,000	50,000	56,000	93,000	106,000
Health research facilities	—	5,775	—	30,000	30,000	30,000	35,000	50,000	56,000	58,000	56,000
Community mental health ctrs.	—	—	—	—	—	—	—	—	—	35,000	50,000

*Data represent appropriations, not estimated obligations; see Estimated Obligations, 1966. †Does not include direct construction or special foreign currency program. ‡Data for years prior to 1962 represent chemotherapy contracts only.

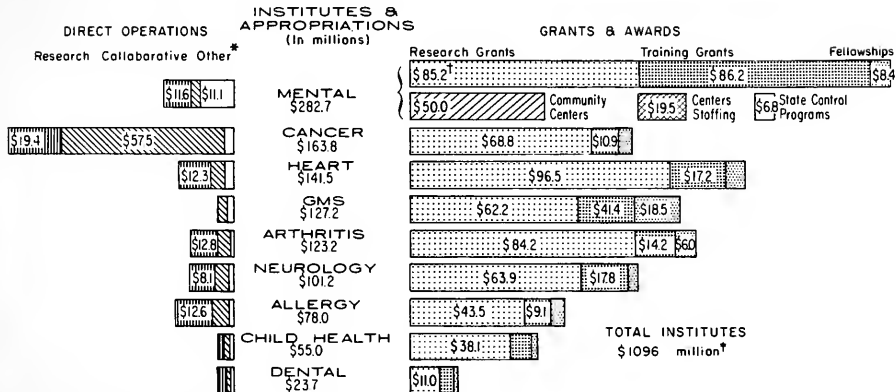
NIH—ORGANIZATION AND FUNCTIONS, 1966

(Appropriations in Millions of Dollars*)



*Service and administrative activities are financed by reimbursement.
†State control programs, biologics control, p. & t. o., training, r. & o., program direction, or administrative services.

PROGRAMS OF THE 9 INSTITUTES, 1966

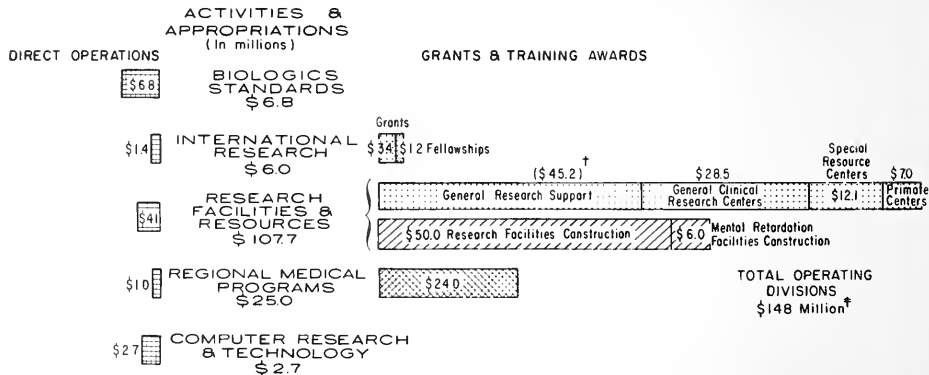


* Training, professional and technical assistance, review and approval, and program direction.

† Includes hospital improvement grants \$18 million.

* Does not include appropriations for operating divisions (\$148 million) or direct construction.

PROGRAMS OF THE OPERATING DIVISIONS, 1966^{*}



^{*} Service and administrative activities—CC, DRG, DRS, OAM and OD—are financed by reimbursement.

[†] Transferred from Institutes

[†] Does not include appropriations for 9 Institutes (\$1096 million) or direct construction.

NIH APPROPRIATIONS, FY 1966
(In thousands)

Activity	Total	Gen. res. & services	Allergy	Arthritis	Cancer	Child health	Dental	General medical sciences	Heart
Total NIH*	\$1,244,406	\$60,469	\$77,987	\$123,203	\$158,618	\$55,024	\$23,677	\$122,638	\$136,412
Grants	920,853	52,270	56,062	104,393	78,606	49,725	18,002	117,687	115,433
Research grants	604,377	51,070	43,466	84,180	66,464	38,081	11,008	61,158	94,230
Regional medical programs	24,000	-	-	-	-	-	-	-	-
Research fellowships	56,330	1,200	3,537	6,007	3,742	3,707	1,791	17,854	6,375
Training grants	209,896	-	9,059	14,206	8,400	7,937	5,203	38,675	14,828
Mental health staffing	19,500	-	-	-	-	-	-	-	-
State control program	6,750	-	-	-	-	-	-	-	-
Direct operations	217,553	8,199	21,925	18,810	80,012	5,299	5,675	4,951	20,979
Direct research	82,728	-	12,620	12,761	19,417	1,912	4,035	-	12,255
Collaborative studies	91,460	1,815	7,825	4,136	57,538	1,937	757	2,400	5,637
Biologics standards	6,806	-	-	-	-	-	-	-	-
Training	2,107	165	-	-	-	90	-	136	261
Prof. & tech. assist.	5,637	-	-	-	-	-	-	-	-
Review & appraisal	17,330	1,338	1,122	1,602	2,136	662	599	1,812	2,358
Program direction	8,768	2,164	358	311	921	698	284	603	468
Computer res. & tech.	2,717	2,717	-	-	-	-	-	-	-
Construction grants	106,000	-	-	-	-	-	-	-	-
Health research facilities	56,000	-	-	-	-	-	-	-	-
Mental retard. facilities	(6,000)	-	-	-	-	-	-	-	-
Community mental health ctrs.	50,000	-	-	-	-	-	-	-	-

*Data represent appropriations, not estimated obligations; see Estimated Obligations, 1966. Does not include direct construction or special foreign currency program.

Continued

NIH APPROPRIATIONS, FY 1966 (Cont.)
(In thousands)

Activity	Mental	Neurology	Biologics standards	Health research facilities	Construction of community mental health centers	Heart dis., cancer & stroke [†]	Regional medical programs	Staffing of community mental health centers	Study of children's emotional illnesses [‡]
Total NIH	\$212,469	\$95,653	\$6,806	\$56,000	\$50,000	\$20,250	\$25,000	\$19,700	\$500
Grants	186,075	79,650	—	—	—	18,950	24,000	19,500	500
Research grants	84,730	61,590	—	—	—	7,900	—	—	500
Regional medical programs	—	—	—	—	—	—	24,000	—	—
Research fellowships	8,364	2,403	—	—	—	1,350	—	—	—
Training grants	86,231	15,657	—	—	—	9,700	—	—	—
Mental health staffing	—	—	—	—	—	—	—	19,500	—
State control program	6,750	—	—	—	—	—	—	—	—
Direct operations	26,394	16,003	6,806	—	—	1,300	1,000	200	—
Direct research	11,620	8,108	—	—	—	—	—	—	—
Collaborative studies	3,864	5,551	—	—	—	—	—	—	—
Biologics standards	—	—	6,806	—	—	—	—	—	—
Training	1,390	65	—	—	—	—	—	—	—
Prof. & tech. assist.	5,157	—	—	—	—	—	280	200	—
Review & approval	3,499	1,882	—	—	—	—	320	—	—
Program direction	864	397	—	—	—	1,300	400	—	—
Computer res. & tech.	—	—	—	—	—	—	—	—	—
Construction grants	—	—	—	56,000	50,000	—	—	—	—
Health research facilities	—	—	—	56,000	—	—	—	—	—
Mental retard. facilities	—	—	—	(6,000)	—	—	—	—	—
Community mental health ctrs.	—	—	—	—	50,000	—	—	—	—

[†]Allocated among Heart, Cancer, Neurology, and General Medical Sciences Institutes. [‡]Allocated to Mental Institute.

NIH ESTIMATED OBLIGATIONS, FY 1966
1966 Column of the 1967 President's Budget
(In thousands)

Activity	Total	Gen. res. & services	Allergy	Arthritis	Cancer	Child health	Dental	General medical sciences	Heart	Mental	Neurology
Total NIH*	\$1,244,406†	\$60,469	\$77,987	\$123,203	\$163,768	\$55,024	\$23,677	\$127,188	\$141,462	\$232,669	\$101,153
Grants	918,274	52,270	56,062	104,393	82,588	49,725	17,955	121,085	120,072	205,324	84,800
Research grants	602,596	51,070	43,466	84,180	67,946	38,081	11,008	61,256	96,469	85,230	63,890
Regional medical programs	24,000	-	-	-	-	-	-	-	-	-	-
Research fellowships	56,330	1,200	3,537	6,007	3,742	3,707	1,791	18,454	6,375	8,364	3,153
Training grants	209,699	-	9,059	14,206	10,900	7,937	5,156	41,375	17,228	86,081	17,757
Mental health staffing	18,899	-	-	-	-	-	-	-	-	18,899	-
State control program	6,750	-	-	-	-	-	-	-	-	6,750	-
Direct operations‡	220,030	8,197	21,924	18,807	81,118	6,195	5,722	6,101	20,490	27,326	16,344
Direct research	82,105	-	12,620	12,814	17,376	2,809	4,070	-	11,426	12,149	8,841
Collaborative studies	93,508	1,616	7,825	4,062	59,931	1,936	758	3,100	5,714	3,702	4,864
Biologics standards	6,806	-	-	-	-	-	-	-	-	-	-
Training	2,110	165	-	-	-	90	-	138	261	1,391	65
Prof. & tech. assist.	5,954	-	-	-	-	-	-	-	-	5,674	-
Review & approval	18,224	1,477	1,121	1,616	2,628	662	606	1,926	2,379	3,540	1,949
Program direction	8,606	2,222	358	315	1,183	698	288	937	710	870	625
Computer res. & tech.	2,717	2,717	-	-	-	-	-	-	-	-	-
Transfers to other accounts	102	2	1	3	62	-896	-	2	900	19	9
Construction grants	106,000	-	-	-	-	-	-	-	-	-	-

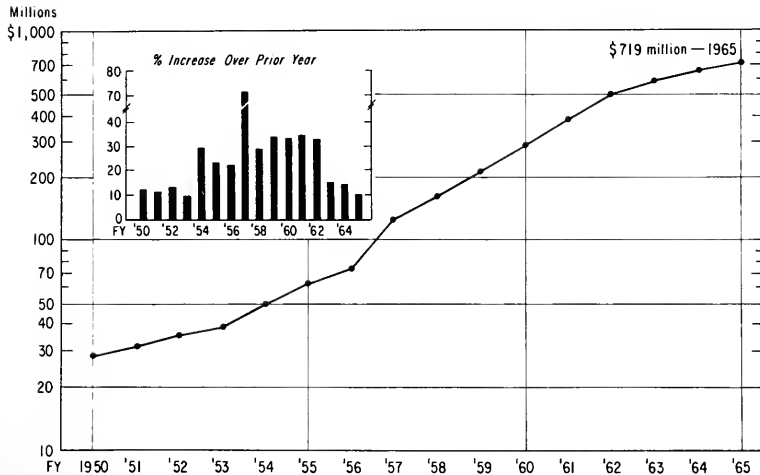
*Excludes direct construction and special foreign currency program. †Contains biologic standards, health research facilities construction, construction of community mental health centers, and regional medical programs, though columns for these appropriations have been omitted to save space. ‡Includes \$1 million for operation of regional medical programs.

ESTIMATED DISTRIBUTION OF RESEARCH GRANTS BY PROGRAM, FY 1966
1966 Column of the 1967 President's Budget
(In thousands)

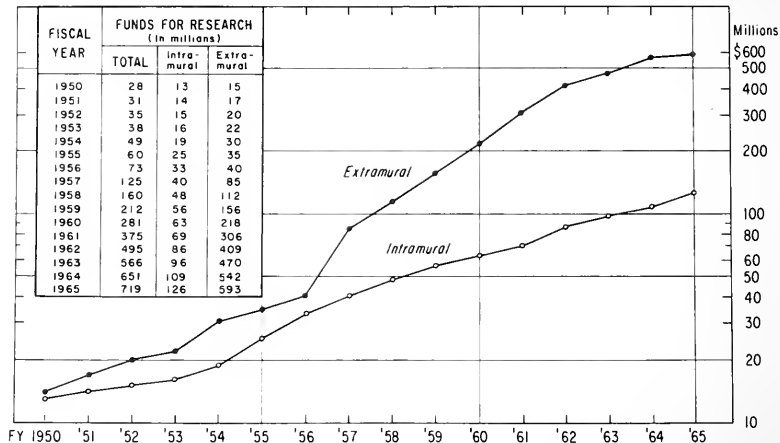
Type of grant	Total	Gen. res. & services*	Allergy	Arthritis	Cancer	Child health	Dental	Gen. med. sciences	Heart	Mental	Neurology
Total	\$602,596	\$51,070	\$43,466	\$84,180	\$67,946	\$38,081	\$11,008	\$61,256	\$96,469	\$85,230	\$63,890
Regular program	457,690	400	38,273	75,208	52,069	34,102	9,614	53,377	81,068	58,926	54,653
Noncompeting projects	300,082	151	26,036	49,871	37,146	19,534	6,179	36,313	55,565	37,266	32,021
Competing projects	157,608	249	12,237	25,337	14,923	14,568	3,435	17,064	25,503	21,660	22,632
Competing continuations	62,648	-	4,714	8,383	8,973	4,897	1,145	6,138	11,055	6,252	11,091
Supplemental	17,450	-	1,000	2,978	2,394	1,285	500	1,525	3,500	1,768	2,500
New	77,510	249	6,523	13,976	3,556	8,386	1,790	9,401	10,948	13,640	9,041
Special programs	144,906	50,670	5,193	8,972	15,877	3,979	1,394	7,879	15,401	26,304	9,237
General research support grants	45,200	-	3,793	7,452	5,159	3,379	954	5,279	8,033	5,839	5,312
Hospital improvement	18,000	-	-	-	-	-	-	-	-	18,000	-
Scientific evaluation	2,716	320	50	20	146	100	40	1,600	150	215	75
Intnl. ctrs. for med. res. & training	3,000	3,000	-	-	-	-	-	-	-	-	-
Gorgas Memorial Laboratory	350	-	350	-	-	-	-	-	-	-	-
General clinical research centers	28,500	28,500	-	-	-	-	-	-	-	-	-
Categorical clinical res. centers	20,490	-	1,000	1,500	7,790	500	400	-	4,500	1,750	3,050
Special research resources	10,850	10,850	-	-	-	-	-	-	-	-	-
Animal resources	1,000	1,000	-	-	-	-	-	-	-	-	-
Primate centers	7,000	7,000	-	-	-	-	-	-	-	-	-
Child leukemia treatment centers	1,500	-	-	-	1,500	-	-	-	-	-	-
Heart cooperative drug study	1,918	-	-	-	-	-	-	-	1,918	-	-
Pharmacology-toxicology research	1,000	-	-	-	-	-	-	1,000	-	-	-
Life island units	600	-	-	-	600	-	-	-	-	-	-
Specialized research centers	2,282	-	-	-	682	-	-	-	800	-	800
Study of children's emotional illness	500	-	-	-	-	-	-	-	-	500	-

*Includes allocations for Division of Research Facilities and Resources, and Office of International Research.

TOTAL NIH RESEARCH OBLIGATIONS, FY 1950-1965



NIH FUNDS OBLIGATED FOR INTRA- AND EXTRAMURAL RESEARCH FY 1950-1965



NIH GRANTS AND AWARDS, FY 1955-1965
(Dollars in millions)

Fiscal year	Total amount*	Research grants		Construction grants		Training grants		Fellowships† and traineeships		Research contracts	
		No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
1955	\$ 55.2	3,280	\$ 35.5	—	\$ —	557	\$ 10.3	1,384	\$ 3.7	—	\$ —
1956	64.7	3,475	40.4	—	—	699	13.5	1,817	4.4	—	—
1957	156.1	6,300	82.9	109	30.0	1,119	25.6	2,566	7.3	43	1.9
1958	191.3	7,134	101.3	177	30.2	1,367	31.9	2,743	8.5	176	11.0
1959	260.2	9,056	141.4	205	31.6	1,934	48.9	3,317	12.7	321	17.2
1960	354.7	11,571	198.8	171	30.8	2,626	73.7	4,255	17.9	286	23.1
1961	481.0	13,534	272.9	156	38.0	3,586	108.4	4,478	24.3	311	22.9
1962	600.3	14,975	372.1	112	36.8	3,697	115.9	4,010	29.6	419	28.1
1963	710.1	15,973	430.9	178	51.3	4,114	140.6	4,561	38.0	496	38.3
1964	815.9	16,017	497.9	129	53.9	4,346	165.9	4,872	44.5	597	42.7
1965	892.8	15,792	538.8	120	64.9‡	4,568	183.9	5,307	49.8	474	48.6

*Includes State control programs and community demonstration projects.

†Includes part-time and postsophomore research fellows through FY 1961.

‡Includes \$13.7 million for centers for research on mental retardation and related aspects of human development.

NIH GRANTS, FELLOWSHIPS AND RESEARCH CONTRACTS, FY 1965*
(Dollars in millions)

Institute, Division or Office	Total amount	Research grants		Construction grants [†]		Training grants		Fellowships [‡]		Research contracts	
		Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	\$892.8	15,183	\$538.8	120	\$64.9	4,150	\$183.9	5,242	\$49.8	474	\$48.6
Allergy	51.8	1,358	35.9	—	—	182	8.9	248	3.0	37	4.0
Arthritis	91.4	2,808	71.9	—	—	323	14.2	405	5.0	7	0.3
Cancer	105.6	1,514	56.5	—	—	241	8.4	270	3.1	267	37.6 [§]
Child health	35.8	956	26.6	—	—	96	5.4	200	2.6	27	1.2
Dental	15.2	339	8.4	—	—	104	5.1	115	1.3	11	0.4
General	106.2	1,892	51.6	—	—	731	37.8	1,997	15.6	15	1.2
Heart	100.0	2,288	78.4	—	—	388	15.5	470	5.8	5	0.3
Mental	161.8	1,846	69.2	—	—	1,820	75.6	995	8.1	69	2.1
Neurology	68.5	1,674	50.8	—	—	265	13.0	376	4.3	15	0.4
DRFR	151.8	407	86.7	120	64.9	—	—	—	—	3	0.2
DBS, DRG, DRS	0.4	—	—	—	—	—	—	—	—	10	0.4
OIR	4.1	101	2.7	—	—	—	—	166	1.2	3	0.2
OD, other	0.2	—	—	—	—	—	—	—	—	5	0.2

*Excludes scientific evaluation grants as follows: research grants, \$2.4 million; training grants, \$0.7 million; and fellowships, \$0.03 million.

[†]Includes grants for health research facilities and for mental retardation research centers. [‡]Includes 1,200 research career awards and 221 traineeships. [§]Includes \$24.0 million for cancer chemotherapy. ^{||}Includes \$6.8 million for State control programs.

NIH RESEARCH GRANT AWARDS BY CATEGORY, FY 1964-1965
(Dollars in thousands)

Type of grant	1964				1965			
	Number	%	Dollars	%	Number	%	Dollars	%
Total	15,242	100.0	\$497,924	100.0	15,183	100.0	\$538,763	100.0
Research projects	14,635	96.0	372,196	74.7	14,498	95.5	394,039	73.1
Projects (traditional)	13,264	87.0	323,781	65.0	13,391	88.2	348,210	64.6
Chemotherapy & psychopharmacology	558	3.7	18,658	3.7	206	1.3	9,215	1.7
Mental health projects	285	1.9	16,190	3.2	302	2.0	16,707	3.1
Hospital improvement grants	79	0.5	5,986	1.2	162	1.1	11,974	2.2
International centers for med. res. & training	6	0.0	2,484	0.5	6	0.0	2,491	0.5
Small grants	228	1.5	869	0.2	192	1.3	740	0.1
Conferences	96	0.6	3,758	0.8	102	0.7	4,135	0.8
Other	119	0.8	470	0.1	137	0.9	567	0.1
Program projects & centers	345	2.3	90,728	18.3	412	2.7	100,739	18.7
Research program projects	177	1.2	37,642	7.6	222	1.5	44,546	8.3
General clinical research centers	69	0.5	27,335	5.5	74	0.5	27,768	5.1
Clinical research centers	52	0.3	14,434	2.9	57	0.4	13,819	2.6
Animal resources	13	0.1	6,500	1.3	21	0.1	8,025	1.5
Special research resources	34	0.2	4,817	1.0	38	0.2	6,581	1.2
General research support	262	1.7	35,000	7.0	273	1.8	43,985	8.2

NIH RESEARCH GRANTS BY TYPE OF GRANTEE INSTITUTION, FY 1954-1965
(Dollars in millions)

Type of institution	1954	1956	1958	1960	1962	1963		1964		1965	
						Amt.	%	Amt.	%	Amt.	%
Total*	\$28.9	\$40.4	\$101.3	\$198.8	\$352.1	\$400.9	100.0	\$462.9	100.0	\$494.8	100.0
Colleges and universities	22.4	30.7	74.7	142.8	256.9	291.8	72.8	333.0	72.0	356.8	72.1
Schools of medicine	16.7	21.5	51.4	93.9	175.6	190.8	47.6	224.5	48.6	238.2	48.2
Other health professional schools	1.0	1.7	5.1	9.8	14.7	16.6	4.1	17.6	3.8	19.4	3.9
Universities (excluding health professional schools)	4.7	7.5	18.2	39.1	66.6	84.4	21.1	90.9	19.6	99.2	20.0
Hospitals	4.8	6.5	16.0	30.3	45.5	53.5	13.3	73.8	15.9	83.2	16.8
Private nonprofit organizations	1.1	2.6	6.7	14.2	25.2	26.7	6.7	30.6	6.6	29.5	6.0
Foreign institutions	0.2	0.3	1.8	5.9	14.1	14.0	3.5	12.9	2.7	10.8	2.2
All other †	0.4	0.3	2.1	5.6	10.4	14.9	3.7	12.6	2.7	14.5	2.9

*Excludes general research support grants, \$44.0 million for 1965.

Source: Science Information Exchange

†Includes grants to government agencies, individuals, and industry.

TOTAL NIH RESEARCH GRANTS BY DOLLAR-AWARD INTERVALS, FY 1964-1965
(Dollars in thousands)

Dollar-award interval	Fiscal year 1964 (Median award - \$19,000)				Fiscal year 1965 (Median award - \$20,330)			
	Number of awards	Percent of awards	Dollar value of awards	Percent of dollars	Number of awards	Percent of awards	Dollar value of awards	Percent of dollars
Total	15,242	100.0	\$497,924	100.0	15,183	100.0	\$538,763	100.0
Less than 5,000	1,045	6.9	3,337	0.7	966	6.4	2,970	0.6
5,000 - 9,999	1,858	12.2	14,553	2.9	1,628	10.7	12,671	2.4
10,000 - 19,999	5,239	34.4	77,278	15.5	4,894	32.2	72,913	13.5
20,000 - 29,999	3,063	20.1	74,666	15.0	3,157	20.8	77,135	14.3
30,000 - 39,999	1,493	9.8	51,257	10.3	1,689	11.1	58,108	10.8
40,000 - 49,999	769	5.0	34,230	6.9	823	5.4	36,776	6.8
50,000 - 74,999	798	5.2	47,771	9.6	855	5.6	51,581	9.6
75,000 - 99,999	316	2.1	27,463	5.5	383	2.5	33,082	6.1
100,000 - 149,999	222	1.5	27,023	5.4	302	2.0	36,003	6.7
150,000 - 199,999	117	0.8	20,080	4.0	134	0.9	23,210	4.3
200,000 - 299,999	154	1.0	38,007	7.6	157	1.0	39,060	7.2
300,000 - 999,999	162	1.1	74,616	15.0	190	1.3	87,846	16.3
1,000,000 and over	6	-	7,643	1.5	5	-	7,407	1.4

APPROVAL RATES FOR NEW NIH RESEARCH GRANT APPLICATIONS REVIEWED, 1961-1964*

Institute or Division	1961			1962			1963			1964		
	Number reviewed	% approved No. Dollars†		Number reviewed	% approved No. Dollars†		Number reviewed	% approved No. Dollars†		Number reviewed	% approved No. Dollars†	
Total NIH	6,386	55.2	44.6	6,898	52.0	48.0	6,953	53.6	44.7	6,724	51.2	42.7
Allergy	626	62.9	60.3	603	57.4	54.8	720	51.4	46.1	568	49.3	45.6
Arthritis	1,012	62.5	54.3	1,065	55.3	51.7	1,134	57.5	56.0	1,028	55.5	47.1
Cancer	631	54.5	55.9	683	45.8	52.6	650	48.0	48.7	513	43.5	37.4
Child health	—	—	—	—	—	—	—	—	—	302	57.6	47.0
Dental	231	52.8	40.8	261	39.5	34.5	214	59.8	54.8	180	60.0	51.0
General	1,076	57.2	51.4	1,167	55.3	48.7	1,111	61.5	51.1	842	59.4	51.5
Heart	916	59.4	35.0	877	53.5	55.5	860	51.4	38.4	775	48.6	44.9
Mental	1,286	41.5	30.3	1,618	46.9	33.0	1,576	47.8	31.6	1,840	43.6	32.7
Neurology	608	56.4	54.6	624	58.5	51.9	654	56.1	42.5	613	58.7	48.5
DRFR	—	—	—	—	—	—	34	50.0	45.4	46	65.2	48.6
OIR	—	—	—	—	—	—	—	—	—	17	100.0	98.1

*Based on council-year which consists of June, November and March meetings.

†Ratio of amounts awarded to amounts requested — i.e., ratio of awarded dollars plus council-approved dollars on applications awaiting final action to amounts requested on approved and disapproved applications.

NIH TRAINING PROGRAM BY TYPE OF AWARD, FY 1957-1965
(In thousands)

Type of award	1957	1959	1960	1961	1962	1963	1964	1965
Total	\$32,898	\$61,573	\$91,654	\$132,696	\$145,456	\$178,594	\$210,377	\$233,726
Training grants	25,629	48,914	73,744 [†]	108,378 [†]	115,857	140,639	165,908	183,931
Fellowships	5,416	10,154	14,859	22,069	26,773	35,805	42,205	47,614
Full-time regular fellows	3,985	6,692	10,081	12,883	16,088	20,412	21,215	23,987
Predoctoral	1,125	2,003	3,237	3,696	4,650	7,604	8,500	10,641
Postdoctoral	2,093	3,682	5,128	6,625	8,311	8,174	8,118	7,968
Special	688	881	1,515	2,292	2,769	3,813	4,121	4,925
Other*	79	126	201	270	358	821	476	454
Part-time students	622	681	817	748	13 [‡]	—	—	—
Other	809	2,781	3,961	8,438	10,672	15,393	20,991	23,626
Pastrophomore research fellows	337	436	514	482	4 [‡]	—	—	—
Foreign fellows	—	345	448	743	700	1,199	1,199	1,199
Senior fellows & special (grants)	472	2,000	2,999	7,213	— §	—	—	—
Research career development awards	—	—	—	—	7,423	10,276	14,285	16,826
Research career awards	—	—	—	—	2,545	3,918	5,507	5,601
Traineeships	1,853	2,505	3,051	2,249	2,826	2,150	2,264	2,181

*Supply grants, special allowances, and supplemental fees applicable to previous fiscal years' awards.

[†]Includes amounts for forward financing.

[‡]Included under general research support program beginning in FY 1962.

§Transferred to RCA and RCDA programs.

NUMBER OF PERSONS IN NIH TRAINING PROGRAMS, FY 1965

Institute or Division	Trainees*				Fellowships & traineeships		Research career & research career development awards	Total	
	Under training grants †		Under gen. res. support grants †						
	Past- doctoral	Pre- doctoral	Past- doctoral	Pre- doctoral	Past- doctoral	Pre- doctoral	Past- doctoral	Past- doctoral	Pre- doctoral
Total	6,409	14,676	125	2,448	2,010	2,008	1,143	9,687	19,132
Allergy	308	638	—	—	136	—	106	550	638
Arthritis	821	239	—	—	262	2	137	1,220	241
Cancer	337	332	—	—	178	3	83	598	335
Child Health	182	242	—	—	119	2	77	378	244
Dental	264	184	—	—	63	9	40	367	193
General	1,108	6,282	—	—	361	1,301	315	1,784	7,583
Heart	713	596	—	—	286	8	159	1,158	604
Mental	1,856	5,984	—	—	161	682	138	2,155	6,666
Neurology	820	179	—	—	282	1	88	1,190	180
Research Facilities & Resources	—	—	125	2,448	—	—	—	125	2,448
Office of International Research	—	—	—	—	162	—	—	162	—

*Preliminary data. Includes 12,785 full-time and 10,873 part-time trainees.

†FY 1964 funds.

TOTAL NIH TRAINING GRANTS BY DOLLAR-AWARD INTERVALS, FY 1964-1965
(Dollars in thousands)

Dollar-award interval	Fiscal year 1964 (Median award - \$34,620)				Fiscal year 1965 (Median award - \$35,990)			
	Number of awards	Percent of awards	Dollar value of awards	Percent of dollars	Number of awards	Percent of awards	Dollar value of awards	Percent of dollars
Total	3,893	100.0	\$165,907	100.0	4,150	100.0	\$183,931	100.0
Less than 5,000	133	3.4	302	0.2	145	3.5	348	0.2
5,000 - 9,999	154	4.0	1,072	0.6	151	3.6	1,060	0.6
10,000 - 19,999	455	11.7	6,938	4.2	475	11.4	7,288	4.0
20,000 - 29,999	913	23.5	22,847	13.8	943	22.7	23,440	12.7
30,000 - 39,999	632	16.2	21,885	13.2	603	14.5	21,044	11.4
40,000 - 49,999	471	12.1	21,127	12.7	536	12.9	24,114	13.1
50,000 - 69,999	555	14.3	32,372	19.5	635	15.3	37,001	20.1
70,000 - 99,999	360	9.2	29,424	17.7	396	9.5	32,634	17.7
100,000 - 149,999	170	4.4	19,985	12.0	202	4.9	23,986	13.0
150,000 - 199,999	34	0.9	5,763	3.5	42	1.0	7,138	3.9
200,000 - 299,999	13	0.3	2,925	1.8	18	0.4	4,262	2.3
300,000 - 499,999	3	0.1	1,267	0.8	4	0.1	1,616	0.9

GRANTS FOR HEALTH RESEARCH FACILITIES CONSTRUCTION BY TYPE OF FACILITY, FY 1957-1965*
(Dollars in thousands)

Type of facility	1957-1962		1963		1964		1965		Total FY 1957-1965†	
	Dollars	Percent	Dollars	Percent	Dollars	Percent	Dollars	Percent	Dollars	Percent
Total	\$177,930	100.0	\$47,238	100.0	\$53,606	100.0	\$51,193	100.0	\$329,967	100.0
Schools	142,196	79.9	37,307	79.0	37,587	70.1	44,163	86.3	261,253	79.2
Medical	99,087	55.7	15,483	32.8	21,796	40.7	33,058	64.6	169,423	51.3
Dental	2,100	1.2	672	1.4	1,923	3.6	1,625	3.2	6,320	1.9
Public health	3,881	2.2	2,273	4.8	526	1.0	538	1.1	7,218	2.2
Other	37,128	20.9	18,879	40.0	13,343	24.9	8,941	17.5	78,291	23.7
Private nonprofit institutions	29,883	16.8	7,178	15.2	10,693	19.9	5,983	11.6	53,737	16.3
Hospitals	16,194	9.1	5,064	10.7	7,314	13.6	3,959	7.7	32,531	9.9
Other	13,689	7.7	2,114	4.5	3,379	6.3	2,024	3.9	21,206	6.4
Other public institutions	5,851	3.3	2,753	5.8	5,326	9.9	1,047	2.0	14,977	4.5
Hospitals	4,703	2.6	1,247	2.6	5,221	9.7	895	1.7	12,065	3.7
Other	1,148	.6	1,506	3.2	105	.2	152	.3	2,912	.9

*Amounts of awards have been adjusted to reflect refunds due to completion of projects for less than estimated cost, reductions in estimates, etc.

†Does not include \$13.7 million for centers for research on mental retardation and related aspects of human development.

NIH GRANTS AND AWARDS BY STATE AND TYPE OF AWARD, FY 1965
(Dallars in thousands*)

State	Total dollars	Research grants		Research contracts		Construction grants†		Training grants		Fellowship and traineeship owards		State control grants	
		No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
Total U.S. & Possessions	\$878,130	14,395	\$527,947	452	\$47,900	115	\$64,933	4,136	\$183,445	4,904	\$47,156	54	\$6,750
Alabomo	7,667	104	3,811	9	2,345	1	22	37	1,149	18	220	1	120
Alaska	469	3	403	—	—	—	—	—	—	—	—	1	66
Arizona	1,539	43	843	3	134	—	—	13	385	14	112	1	65
Arkonsos	2,506	60	1,583	—	—	—	—	24	762	7	98	1	63
California	96,848	1,568	64,125	41	3,307	16	6,041	360	17,575	657	5,315	1	485
Colorado	11,540	179	6,273	3	149	5	1,667	65	2,849	60	536	1	66
Connecticut	17,141	305	9,258	6	199	5	1,438	93	4,610	172	1,574	1	62
Deloware	701	19	532	2	9	—	—	5	67	5	27	1	66
District of Columbia	13,944	215	7,629	41	1,807	—	—	91	4,000	52	442	1	66
Florida	16,179	267	8,383	7	547	6	2,941	76	3,530	62	597	1	181
Georgia	9,338	172	6,364	—	—	—	—	61	2,400	43	431	1	143
Hawaii	2,332	44	1,453	6	220	—	—	16	507	8	86	1	66
Idoho	234	5	107	—	—	—	—	3	58	1	3	1	66
Illinois	47,532	835	27,562	16	2,044	6	3,807	229	10,769	318	3,057	1	293
Indiana	11,983	245	7,616	8	701	1	86	60	2,527	122	914	1	139
Iowo	8,884	176	5,232	—	—	2	665	65	2,272	65	627	1	88
Kansos	8,006	162	4,343	3	113	1	397	59	2,573	54	510	1	70

Continued

NIH GRANTS AND AWARDS BY STATE AND TYPE OF AWARD, FY 1965 (Cont.)
(Dollars in thousands*)

State	Total dollars	Research grants		Research contracts		Construction grants [†]		Training grants		Fellowship and traineeship awards		State control grants	
		No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
Kentucky	\$ 6,368	155	\$ 4,139	2	\$ 21	1	\$ 125	50	\$ 1,738	21	\$ 237	1	\$ 108
Louisiana	13,210	201	8,710	9	256	1	146	78	3,468	48	512	1	118
Moine	1,855	43	1,366	2	188	-	-	5	176	4	63	1	62
Maryland	37,132	450	18,515	41	7,146	2	2,481	129	6,686	224	2,206	1	98
Massachusetts	77,024	1,153	51,253	30	2,935	9	2,230	290	14,696	649	5,759	1	151
Michigan	28,415	490	16,053	17	3,150	3	1,023	149	6,429	184	1,513	1	247
Minnesota	21,695	381	13,375	6	323	3	1,188	111	5,609	110	1,099	1	101
Mississippi	3,351	77	1,939	-	-	1	493	22	724	13	114	1	81
Missouri	18,590	328	11,404	6	572	1	290	125	5,316	74	875	1	133
Montana	1,115	31	829	-	-	-	-	4	130	11	90	1	66
Nebraska	3,850	87	2,355	1	15	-	-	37	1,280	14	134	1	66
Nevada	332	6	190	-	-	-	-	3	76	-	-	1	66
New Hampshire	2,898	68	2,130	1	1	-	-	18	433	25	273	1	61
New Jersey	16,994	220	7,011	20	3,186	2	4,121	61	2,013	62	476	1	187
New Mexico	1,647	39	1,216	-	-	-	-	11	345	3	20	1	66
New York	141,080	2,215	89,412	61	7,803	12	10,739	550	26,126	616	6,498	1	502
North Carolina	20,635	364	12,303	8	280	1	54	141	6,425	111	1,407	1	166
North Dakota	750	18	433	1	4	-	-	11	181	8	66	1	66
Ohio	30,408	513	16,698	20	1,730	6	4,547	127	5,497	143	1,638	1	298
Oklahoma	6,726	153	4,490	-	-	2	106	46	1,727	31	322	1	81

Continued

NIH GRANTS AND AWARDS BY STATE AND TYPE OF AWARD, FY 1965 (Cont.)
(Dollars in thousands*)

State	Total dollars	Research grants		Research contracts		Construction grants [†]		Training grants		Fellowship and traineeship awards		State control grants	
		No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
Oregon	\$ 11,494	202	\$ 8,391	4	\$ 105	4	\$ 204	51	\$ 2,234	59	\$ 496	1	\$ 64
Pennsylvania	55,289	996	35,840	26	2,086	8	3,283	260	10,679	267	3,052	1	349
Rhode Island	3,134	67	1,960	2	10	-	-	18	918	28	180	1	66
South Carolina	1,692	44	982	1	7	-	-	18	574	3	38	1	91
South Dakota	610	18	375	-	-	-	-	8	152	4	25	1	58
Tennessee	15,223	247	8,485	-	-	2	2,464	79	3,338	71	807	1	129
Texas	29,171	432	17,993	14	1,885	2	2,385	129	5,450	95	1,126	1	332
Utah	7,555	113	3,741	4	272	3	1,074	43	1,857	47	550	1	61
Vermont	4,616	59	1,520	1	5	2	2,167	21	716	10	142	1	66
Virginia	12,366	147	4,563	19	3,803	3	1,263	63	2,184	33	411	1	142
Washington	22,886	282	9,942	1	24	3	7,228	84	4,614	102	986	1	92
West Virginia	2,537	54	1,773	1	29	-	-	21	571	8	98	1	66
Wisconsin	17,598	298	11,501	8	412	1	260	85	3,937	165	1,364	1	124
Wyoming	442	7	328	-	-	-	-	2	50	1	6	1	58
Guam	55	-	-	-	-	-	-	-	-	-	-	1	55
Puerto Rico	2,480	35	1,215	1	80	-	-	29	1,062	2	24	1	99
Virgin Islands	64	-	-	-	-	-	-	-	-	-	-	1	64

*Dollars may not add because of rounding.

†Includes grants for health research facilities and grants for centers for research on mental retardation and related aspects of human development.

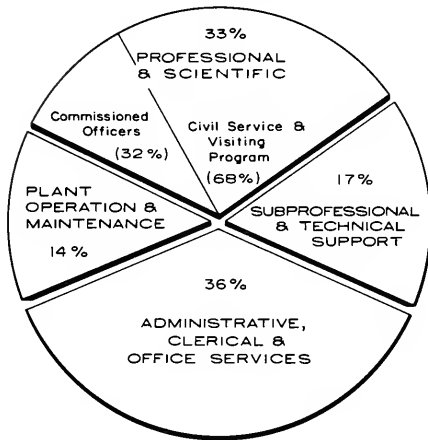
NIH FOREIGN GRANTS AND AWARDS, FY 1965

Country	Total awards*		Research grants & contracts		U.S. fellows & trainees abroad		International research fellows		Visiting scientists		Training grants		Foreign currency program†
	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	Amount
World total	1,488	\$17,080,666	810	\$11,544,551	342	\$2,677,782	166	\$1,199,445	156	\$1,172,219	14	\$486,669	\$3,163,044
WESTERN HEMISPHERE													
Total	268	4,240,341	199	3,467,237	19	118,191	35	237,049	7	46,225	8	371,639	-
Canada	97	1,768,936	72	1,410,394	16	98,217	-	-	3	10,278	6	250,047	-
Latin America	171	2,471,405	127	2,056,843	3	19,974	35	237,049	4	35,947	2	121,592	-
EUROPE													
Total	804	8,463,592	342	4,845,064	293	2,313,323	81	580,237	82	609,938	6	115,030	224,599
France	69	816,048	33	536,619	27	215,317	6	44,504	3	19,608	-	-	-
Germany — Federal Republic	52	387,869	9	59,961	26	190,520	7	53,847	10	83,541	-	-	-
Italy	60	661,069	32	431,450	10	89,532	8	50,983	10	89,104	-	-	-
Sweden	108	1,444,225	51	901,130	41	395,874	8	62,881	6	46,020	2	38,320	-
United Kingdom	261	2,398,479	78	1,021,825	146	1,077,016	6	45,621	29	207,307	2	46,710	-
Other	254	2,755,902	139	1,894,079	43	345,064	46	322,401	24	164,358	2	30,000	224,599
AFRICA	26	368,569	16	282,623	3	22,325	5	43,562	2	20,059	-	-	612,136
MIDDLE EAST													
Total	105	1,319,910	72	1,082,440	15	117,835	8	54,645	10	64,990	-	-	1,146,011
Israel	90	1,118,333	58	896,993	15	117,835	8	54,645	9	48,860	-	-	1,146,011
Other	15	201,577	14	185,447	-	-	-	-	1	16,130	-	-	-
SOUTH ASIA AND FAR EAST													
Total	285	2,688,254	181	1,867,187	12	106,108	37	283,952	55	431,007	-	-	1,180,298
Australia	56	778,981	35	588,906	8	65,100	5	53,955	8	71,020	-	-	-
Japan	156	1,362,152	113	1,031,841	4	41,008	7	53,122	32	236,181	-	-	-
Other	73	547,121	33	246,440	-	-	25	176,875	15	123,806	-	-	1,180,298

* Does not include 6 grants to domestic institutions, totalling \$2,490,709, for international centers for medical research and training

† Not included in "Total awards" column

TOTAL NIH STAFF
11,174 Scientists and Supportive Workers



NIH EMPLOYMENT BY OCCUPATIONAL GROUPING
September 1, 1965

Total NIH		11,174*
Professional and scientific		3,686
Administration	52	
Direct research and services	2,759	
DRG	104	
Other extramural activities	771	
Sub-professional and technical support		1,891
Administrative, clerical and office services		4,016
Plant operation and maintenance		1,499

*Includes 82 youth trainees not shown in occupational groups.

NIH EMPLOYMENT BY PROGRAM AND PAY SYSTEM
September 1, 1965

Full-time employees

Organization	Full-time total	Civil Service*				Comm. corps	Visiting program
		G5†	208g	WB	Staff fellows		
Total	11,174	7,979	95	1,777	45	1,189	89
OD	201	176	5	-	-	20	-
DAM	1,176	825	-	348	-	3	-
NCI	1,269	981	17	68	7	187	9
NHI	720	519	10	15	9	146	21
NIAID	704	503	6	76	3	112	4
NIAMD	597	437	11	9	10	102	28
NICHD	179	134	4	-	2	37	2
NIDR	297	211	2	10	-	70	4
NIGMS	146	138	2	-	-	6	-
NIMH	1,189	938	19	8	9	206	9
NINDB	726	606	13	32	4	62	9
CC	1,685	1,009	1	533	1	139	2
DBS	273	218	-	26	-	28	1
DRFR	126	118	1	-	-	7	-
DRG	564	542	4	-	-	18	-
DR5	1,322	624	-	652	-	46	-

Part-time and intermittent

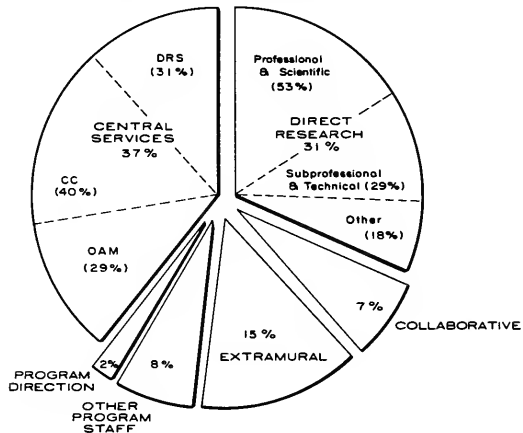
Part-time total	Civil Service	
	G5, WB	Cons., Adv.
1,020	389	631
95	14	81
7	7	0
89	8	81
57	33	24
39	4	35
57	19	38
83	15	68
40	4	36
19	4	15
259	107	152
101	30	71
96	96	-
12	5	7
20	-	20
30	30	-
16	13	3

*Includes 2,408 professional and scientific employees. † Includes 82 youth trainees and 6 unclassified employees.

NIH EMPLOYMENT BY PROGRAM, 1961-1965

Institute, Division or Office	Full-Time					Part-Time				
	7/1/61	7/1/62	7/1/63	7/1/64	7/1/65	7/1/61	7/1/62	7/1/63	7/1/64	7/1/65
Total NIH	8,783	9,984	10,463	10,656	11,170	1,123	855	973	939	1,040
OD	985	1,211	1,337	1,445	1,403	17	24	50	56	103
Allergy	591	663	678	668	706	38	29	48	30	35
Arthritis	545	587	592	579	576	129	87	96	95	50
Cancer	1,166	1,263	1,218	1,199	1,279	149	80	117	69	81
Child Health	-	-	35	92	167	-	-	13	54	83
Dental	181	244	254	254	305	39	39	41	40	37
General	112	143	125	138	151	32	19	17	13	18
Heart	576	631	690	690	735	93	73	77	62	62
Mental	818	985	1,025	1,057	1,151	250	208	259	245	264
Neurology	510	630	714	674	764	162	109	62	76	106
CC	1,573	1,618	1,686	1,713	1,673	90	102	101	115	105
DBS	222	231	232	245	267	24	14	15	17	23
DRFR	-	-	94	110	125	-	-	18	21	24
DRG	467	549	521	521	556	81	43	27	28	31
DRS	1,037	1,229	1,262	1,271	1,312	19	28	32	18	18

FUNCTIONAL DISTRIBUTION OF NIH PERSONNEL
11,174 Full-Time Commissioned Officers, Civil Service Employees, and Visiting Scientists

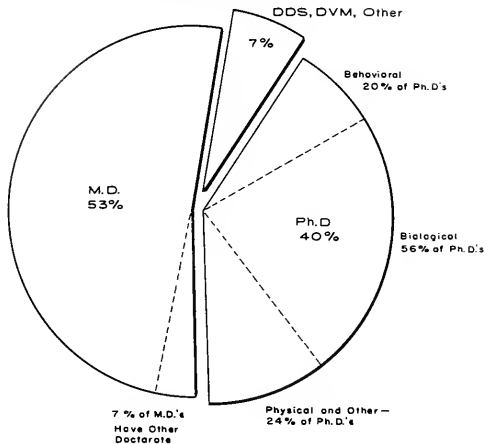


FUNCTIONAL DISTRIBUTION OF NIH PERSONNEL
September 1, 1965

		Total staff	11,174*		
Direct research		3,498		Central services	4,114
Professional and scientific	1,841			DRS	1,277
Sub-professional and technical	1,007			Professional and scientific	183
Other	650			Other	1,094
				CC	1,662
Professional and scientific	513			Professional and scientific	513
Other	1,149			Other	1,149
Collaborative studies	844			OAM	1,175
Professional and scientific	334			Professional and scientific	7
Other	510			Other	1,168
Extramural research	1,674			Program direction (OD-NIH)	192
Professional and scientific	541			Professional and scientific	47
Other	1,133			Other	145
				Other program staff	852
				Professional and scientific	220
				Other	632

*Includes full-time civil service employees, commissioned officers, visiting programs at Bethesda and in the field, and the youth trainee program.

PROFESSIONAL STAFF
1874 Professionals with Doctor's Degrees



NIH PROFESSIONAL STAFF WITH DOCTORAL DEGREES, BY TYPE OF DOCTORATE AND DISCIPLINE
September 1, 1965

Degree	No. of doctors	Distribution of Ph.D.'s			
Total NIH*	1,874	Biological	423	Behavioral	149
M.D.	982	Biochemistry	131	Psychology	122
(M.D.'s with other doctorate)	(67)	Physiology	66	Social sciences	27
Ph.D.	757	Bacteriology	42		
Biological	423	Zoology	41	Physical	136
Behavioral	149	Microbiology	34	Chemistry	125
Physical	136	Biology	33	Physics	11
Other	49	Pharmacology	27		
D.D.S.	46	Entomology	13		
D.V.M.	38	Parasitology	12	Other	49
D.Sc.	33	Biophysics	11	Statistics	12
D.Ed.	6	Genetics	6	Mathematics	3
D. Pharm.	3	Cytology	2	Miscellaneous	34
D.S.W.	2	Embryology	2		
D.N.Sc.	1	Immunology	1		
D.O.	1	Mycology	1		
D.Pod.	1	Nutrition	1		
D.P.H.	2				
D.Sc.Hyg.	1				
O.D.	1				

* Includes full-time civil service employees, commissioned officers, and visiting program at Bethesda and in the field.

CHRONOLOGY OF IMPORTANT DATES IN THE DEVELOPMENT OF NIH PROGRAMS

- 1887** Research laboratory founded at Marine Hospital, Staten Island, N.Y., to meet new responsibilities of Marine Hospital Service.
- 1891** Hygienic Laboratory moves from Staten Island to Service headquarters, Washington, D.C.
- 1902** Advisory Board for the Hygienic Laboratory established; later to become National Advisory Health Council. Act of Congress makes Service responsible for biologics control.
- 1912** Name of Public Health & Marine Hospital Service changed to Public Health Service.
- 1930** Hygienic Laboratory becomes National Institute of Health.
- 1937** Congress authorizes National Cancer Institute. First research grants.
- 1938** National Institute of Health moves to land donated by Mr. and Mrs. Luke I. Wilson at Bethesda, Md. First research fellowships (NCI).

- 1944 Public Health Service Act, giving general research authority.
- 1945 Research grants extended, with central NIH responsibility.
- 1946 Congress passes Mental Health Act.
- 1947 Division of Research Grants established to process NIH grants and fellowships to non-Federal institutions and scientists. First training grants (NCI).
- 1948 National Heart Institute authorized; other laboratories regrouped to form Microbiological Institute, Experimental Biology & Medicine Institute, and National Institute of Dental Research. NIH becomes National *Institutes* of Health.
- 1949 Mental hygiene program of Public Health Service transferred to NIH and expanded to become National Institute of Mental Health.
- 1950 "Omnibus Act." National Institute of Neurological Diseases & Blindness and National Institute of Arthritis & Metabolic Diseases established, the latter absorbing Experimental Biology & Medicine Institute.

- 1953** Public Health Service becomes a constituent of newly created Department of Health, Education, & Welfare. Clinical Center opens.
- 1955** National Microbiological Institute becomes National Institute of Allergy & Infectious Diseases. Division of Biologics Standards formed, assuming NMI's biologics control function. Division of Research Services established.
- 1956** Health Research Facilities Act, establishing program of matching grants for research construction in non-Federal institutions.
- 1958** Division of General Medical Sciences created.
- 1959** Office of Administrative Management formed, consolidating managerial activities.
- 1960** Public Health Service Act amended to provide for general support of research and research training programs in nonprofit institutions. International Health Research Act; NIH extends international programs.

- 1962 Division of Research Facilities & Resources created. Two Institutes authorized — National Institute of General Medical Sciences (to supersede DGMS) and National Institute of Child Health & Human Development.
- 1963 Two new Institutes — NIGMS and NICHD — established. Mental Retardation Facilities and Community Mental Health Centers Construction Act expands programs of DRFR, NICHD and NIMH.
- 1964 Division of Computer Research and Technology authorized.
- 1965 Division of Regional Medical Programs created to administer the Heart Disease, Cancer, and Stroke Amendments of 1965.

NATIONAL
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OF HEALTH
1967

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NATIONAL INSTITUTES OF HEALTH

March 1967

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DISEASES

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SERVICES



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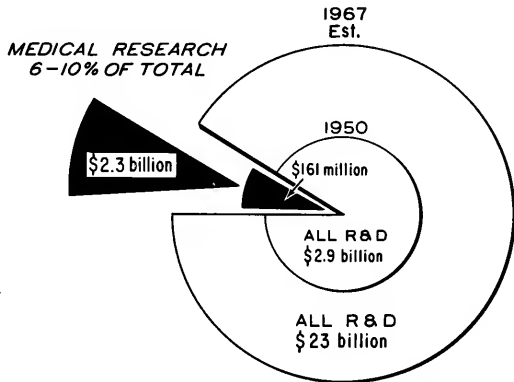
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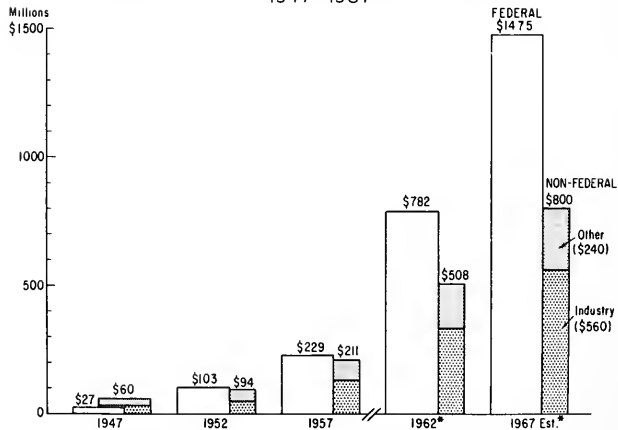
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MEDICAL RESEARCH AS A
PROPORTION OF ALL RESEARCH AND DEVELOPMENT
1950-1967



SOURCES OF MEDICAL RESEARCH FUNDS 1947-1967



*Non-Federal data are not strictly comparable with those for prior years, as coverage has been improved.

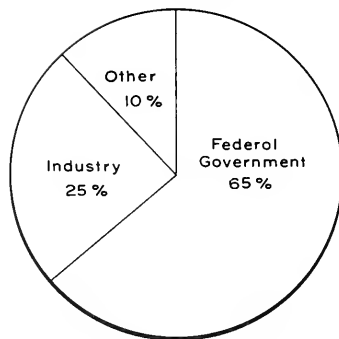
NATIONAL EXPENDITURES FOR MEDICAL RESEARCH, 1940-1967*
(In millions)

Source of funds	1940	1947	1957	1962	1963	1964	1965	1966 est.	1967 est.
Total	\$45	\$87	\$440	\$1,290	\$1,486	\$1,672	\$1,841	\$2,050	\$2,275
Government	3	27	239	819	964	1,102	1,229	1,380	1,540.
Federal	3	27	229	782	919	1,052	1,174	1,319	1,475
State and local	n.a.	n.a.	10	37	45	50	55	61	65
Industry	25	35	126	336	375	415	450	500	560
Private support	17	25	75	135	147	155	162	170	175
Foundations and health agencies	12	15	42	78	85	90	92	95	98
Other private contributors	n.a.	n.a.	5	18	21	22	25	28	29
Endowment	5	10	19	19	19	19	19	19	19
Institutions' own funds	n.a.	n.a.	9	20	22	24	26	28	29

*Covers only medical and health-related research; such activities as research training and construction are not included. Beginning with 1962, data for the non-Federal component have been improved and therefore are not strictly comparable with those for prior years.

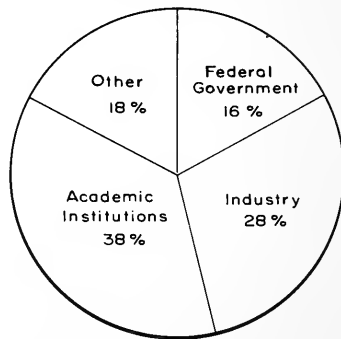
NATIONAL EXPENDITURES FOR
MEDICAL AND HEALTH-RELATED RESEARCH
1967

BY SOURCE



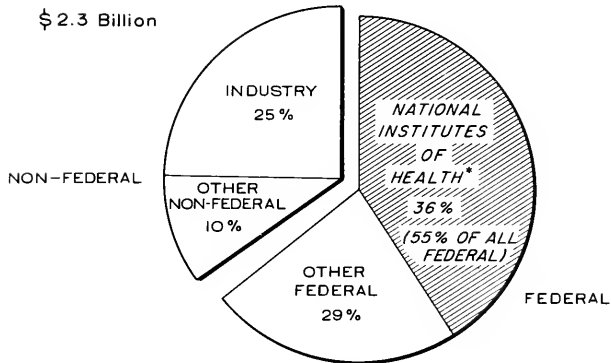
\$ 2.3 BILLION Est.

BY PERFORMER



\$ 2.3 BILLION Est.

NIH FUNDS AS A PROPORTION OF NATION'S MEDICAL
RESEARCH SUPPORT



1967 Est.

*Excludes National Institute of Mental Health (4%).

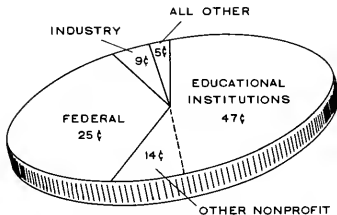
FEDERAL SUPPORT FOR MEDICAL RESEARCH, FY 1947-1967*
(Dollars in millions)

Agency	1947		1957		1962		1963		1964		1965		1966		1967 est.	
	Amt.	%	Amt.	%	Amt.	%	Amt.	%	Amt.	%	Amt.	%	Amt.	%	Amt.	%
Total	\$27.0	100.0	\$228.9	100.0	\$782.1	100.0	\$919.0	100.0	\$1048.7	100.0	\$1174.2	100.0	\$1318.7	100.0	\$1475.5	100.0
AEC	1.8	6.7	32.8	14.3	64.7	8.3	74.7	8.1	78.1	7.4	84.6	7.2	89.6	6.8	95.4	6.5
Agriculture	2.9	10.7	12.7	5.5	21.7	2.8	23.3	2.5	27.9	2.7	40.5	3.4	44.7	3.4	45.7	3.1
Defense	8.4	31.1	26.2	11.4	73.7	9.4	88.4	9.6	86.5	8.2	101.3	8.6	119.2	9.0	114.3	7.7
DHEW	12.2	45.2	142.3	62.2	562.1	71.9	641.6	69.8	752.5	71.8	826.2	70.4	928.3	70.4	1070.6	72.6
(NIH)	(8.3)	(30.7)	(125.4)	(54.8)	(495.4)	(63.3)	(566.0)	(61.6)	(651.0)	(62.1)	(715.1)	(60.9)	(790.9)	(60.0)	(813.9)	(55.2) [†]
FAA	—	—	0.0	0.0	1.8	0.2	2.9	0.3	2.9	0.3	2.8	0.2	2.5	0.2	2.7	0.2
NASA	—	—	—	—	13.6	1.7	34.2	3.7	41.2	3.9	60.0	5.1	75.4	5.7	79.9	5.4
NSF	—	—	3.4	1.5	15.3	2.0	21.1	2.3	23.1	2.2	19.7	1.7	13.8	1.0	14.4	1.0
VA	1.4	5.2	10.4	4.5	26.8	3.4	29.9	3.3	33.2	3.2	36.9	3.1	40.7	3.1	46.9	3.2
Other	0.3	1.1	1.0	0.4	2.5	0.3	2.9	0.3	3.3	0.3	2.4	0.2	4.7	0.4	5.4	0.4

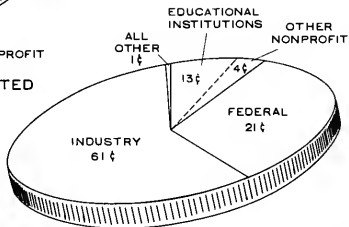
*Covers only medical and health-related research; such activities as research training and construction are not included.

[†]Excludes mental health.

FEDERAL R & D DOLLAR DISTRIBUTED BY PERFORMER, 1967



MEDICAL AND HEALTH-RELATED
(\$ 1.5 billion)



ALL FEDERAL RESEARCH & DEVELOPMENT
(\$16.6 billion)

FEDERAL AND NIH OBLIGATIONS FOR RESEARCH AND DEVELOPMENT BY PERFORMER, 1965
(In thousands)

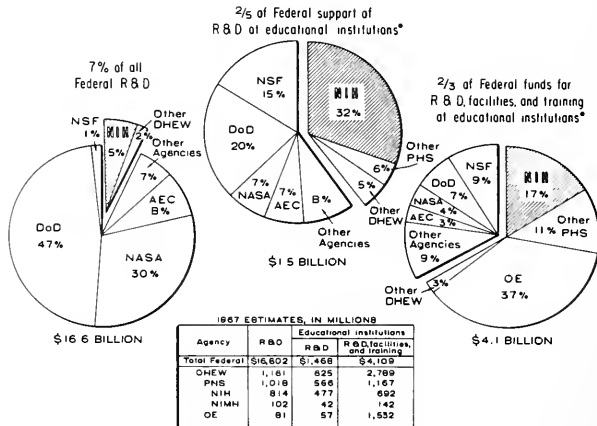
Performer	Federal				NIH			
	Total research & development	Research		Development	Total research & development	Research		Development
		Total	Basic			Total	Basic	
Total, all performers	\$14,599,604	\$4,853,884	\$1,689,931	\$9,745,720	\$715,072	\$715,072	\$275,302	-
United States and Territories, total	14,531,033	4,804,497	1,664,568	9,726,536	699,575	699,575	271,036	-
Federal Government	3,092,709	1,453,874	424,421	1,638,835	115,584	115,584	43,133	-
Profit organizations exclud- ing research centers	8,667,730	1,463,529	271,547	7,204,201	28,633	28,633	-	-
Research centers	406,127	70,251	27,467	335,876	-	-	-	-
Educational institutions, ex- cluding research centers	1,188,112	1,119,385	634,221	68,727	402,398	402,398	165,230	-
Research centers	549,108	331,631	150,673	217,477	-	-	-	-
Nonprofit institutions, ex- cluding educational insti- tutions and research centers	349,896	224,066	88,236	125,830	139,746	139,746	57,204	-
Research centers	231,939	98,677	51,993	133,262	-	-	-	-
Other performers	45,412	43,084	16,010	2,328	13,214	13,214	5,469	-
Foreign total	68,571	49,387	25,363	19,184	15,497	15,497	4,266	-

FEDERAL AND NIH OBLIGATIONS FOR RESEARCH BY FIELD OF SCIENCE, FY 1965
(In thousands)

Field of science	Federal			NIH			
	Total	Basic	Applied	Total	Percent of Federal	Basic	Applied
Total	\$4,853,884	\$1,689,931	\$3,163,953	\$715,072	100.0	\$275,302	\$439,770
Life Sciences	1,182,899	502,632	680,267	636,394	89.0	231,004	405,390
Biological sciences	258,128	176,736	81,392	18,480	2.6	18,480	-
Medical sciences	819,430	285,710	533,720	617,914	86.4	212,524	405,390
Agriculture	105,341	40,186	65,155	-	-	-	-
Psychological sciences	103,479	57,763	45,716	37,953	5.3	28,561	9,392
Biological psychology	n.a.	n.a.	n.a.	22,026	3.1	17,002	5,024
Social psychology	n.a.	n.a.	n.a.	15,927	2.2	11,559	4,368
Physical sciences	3,370,312	1,090,688	2,279,624	20,556	2.9	7,434	13,122
Chemistry	232,940	101,540	131,400	14,525	2.0	5,062	9,463
Mathematics	104,562	56,544	48,018	3,608	0.5	1,768	1,840
Other	3,032,810	932,604	2,100,206	2,423	0.3	604	1,819
Social sciences	127,389	36,931	90,458	18,061	2.5	6,461	11,600
Anthropology	8,121	7,536	585	2,003	0.3	1,963	40
Sociology	47,157	12,127	35,030	11,993	1.7	3,216	8,777
Economics	25,344	5,955	19,389	-	-	-	-
Other social sciences	46,767	11,313	35,454	4,065	0.6	1,282	2,783
Other sciences	69,805	1,917	67,888	2,108*	0.3	1,842	266

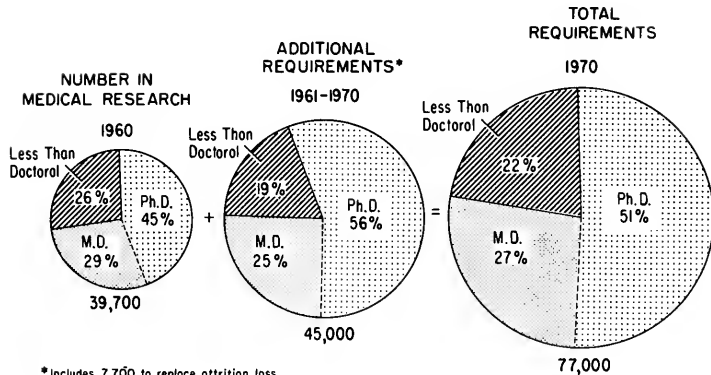
* Includes information processing techniques and cybernetics.

AGENCIES OF DHEW ACCOUNT FOR —

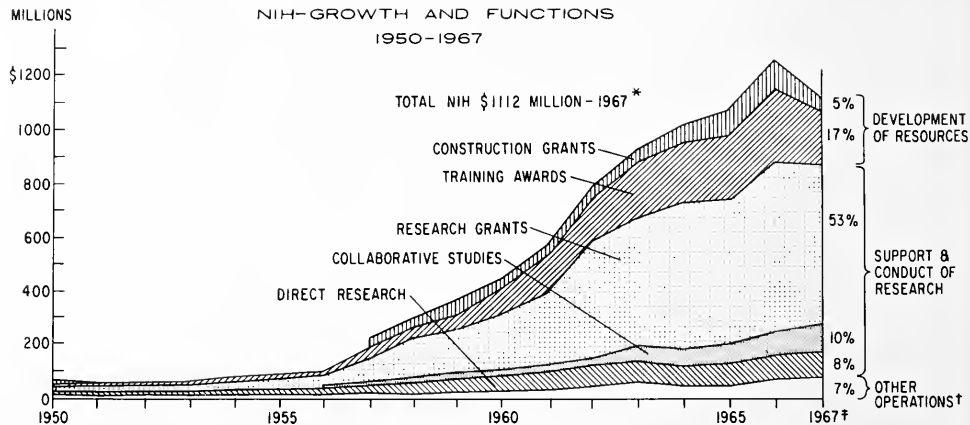


* Excludes university-managed Federal-contract research centers.

MANPOWER FOR NATION'S MEDICAL AND HEALTH-RELATED RESEARCH BY DEGREE 1960-1970



*Includes 7,700 to replace attrition loss.



* Excludes direct construction. † State control programs, biologics control, prof. & tech. asst., regional med. programs, training, review and approval, and program direction. * Includes Environmental Health Sciences, excludes Mental Health.

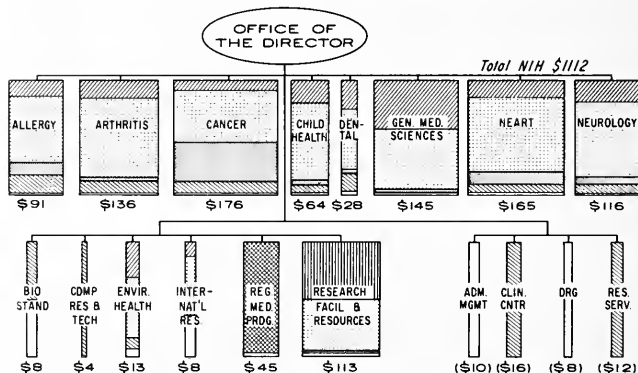
CONSOLIDATED NIH APPROPRIATIONS, FY 1946-1967*
(In thousands)

Activity	1946	1950	1955	1957	1960	1962	1964	1965	1966	1967	
										Incl. Mental, excl. Envir.	Incl. Envir., excl. Mental
Total NIH [†]	\$3,020	\$52,146	\$81,268	\$213,007	\$430,000	\$771,585	\$974,454	\$1,058,992	\$1,244,406	\$1,412,983	\$1,111,888
Grants	850	30,979	54,331	133,544	304,430	598,998	758,569	782,199	920,853	1,049,337	826,471
Research grants	780	14,066	33,918	89,797	202,948	433,662	529,231	545,153	604,377	681,197	598,139
Regional medical programs	—	—	—	—	—	—	—	—	24,000	43,000	43,000
Research fellowships	45	1,448	2,562	5,397	14,570	29,080	45,786	48,985	56,330	60,123	50,990
Training grants	25	6,415	11,051	28,075	75,037	118,506	172,602	181,311	209,896	224,486	134,342
Mental health staffing	—	—	—	—	—	—	—	—	19,500	33,781	—
State control programs	—	9,050	6,800	10,275	11,875	17,750	10,950	6,750	6,750	6,750	—
Direct operations	2,170	15,392	26,937	49,463	95,570	137,587	159,885	183,793	217,553	257,646	229,417
Direct research	2,100	11,300	22,934	34,142	49,885	69,674	71,138	77,154	82,728	90,479	78,647
Collaborative studies [‡]	—	—	—	4,668	22,142	35,857	58,060	74,472	91,460	113,445	109,726
Biologics standards	—	—	454	1,692	2,805	3,050	4,787	4,969	6,806	7,904	7,904
Prof. & tech. assistance	—	2,538	1,850	5,137	11,558	11,953	3,998	4,192	5,637	7,570	885
Training	—	171	50	251	335	475	1,465	1,639	2,107	2,319	578
Review & approval	30	803	1,049	2,789	7,076	12,799	15,171	15,532	17,330	19,903	16,448
Program direction	40	580	600	784	1,769	3,779	5,266	5,835	8,768	12,195	11,398
Computer research and tech.	—	—	—	—	—	—	—	—	2,717	3,831	3,831
Construction grants	—	5,775	—	30,000	30,000	35,000	56,000	93,000	106,000	106,000 [§]	56,000

*Data represent appropriations, not funds obligated. †Does not include direct construction or special foreign currency program. ‡Data for years prior to 1962 represent chemotherapy contracts only. §Includes \$50 million for Community Mental Health Centers.

NIH ORGANIZATION AND FUNCTIONS, 1967

(Appropriations in Millions of Dollars)



* Service and administrative activities are financed by reimbursement.

† Biologics control, professional and technical assistance, training, review and approval, program direction, or administrative services

■ Construction Grants

▨ Training Awards

□ Research Grants

▤ Collaborative Studies

▥ Direct Research

□ Other Operations†

NIH APPROPRIATIONS, FY 1967
(In thousands)

Activity	Total incl. envir., excl. mental	General research & serv.	Allergy	Arthritis	Cancer	Child health	Dental	Envir. health sciences
Total NIH*	\$1,111,888	\$68,534	\$90,670	\$135,687	\$175,656	\$64,922	\$28,308	\$13,024
Grants	826,471	56,658	64,809	113,621	92,788	55,710	22,215	11,377
Research grants	598,139	55,108	52,006	92,635	77,550	42,291	15,126	7,073
Regional medical programs	43,000	—	—	—	—	—	—	—
Research fellowships	50,990	1,300	3,700	6,129	4,170	3,800	1,841	—
Training grants	134,342	250	9,103	14,857	11,068	9,619	5,248	4,304
Mental health staffing	—	—	—	—	—	—	—	—
State control program	—	—	—	—	—	—	—	—
Direct operations	229,417	11,876	25,861	22,066	82,868	9,212	6,093	1,647
Direct research	78,647	—	14,208	14,080	18,357	4,472	4,382	1,244
Collaborative studies	109,726	1,820	10,073	5,913	60,373	3,071	758	—
Biologics standards	7,904	—	—	—	—	—	—	—
Training	885	169	—	—	—	119	—	—
Prof. & tech. assist.	578	—	—	—	—	—	—	—
Review & appraisal	16,448	1,542	1,191	1,727	2,752	751	645	270
Program direction	11,398	4,514	389	346	1,386	799	308	133
Computer res. & tech.	3,831	3,831	—	—	—	—	—	—
Construction grants	56,000	—	—	—	—	—	—	—

*Data represent appropriations, not estimated obligations; see NIH Funds Available for Obligation, FY 1967. Does not include direct construction or the special foreign currency program.

Continued

NIH APPROPRIATIONS, FY 1967 (Cont.)
(In thousands)

Activity	General medical sciences	Heart	(Mental)	Neurology	Biologics standards	Health research facilities	(Construction of community mental health centers)	Regional medical programs
Total NIH	\$145,113	\$164,770	(\$264,119)	\$116,296	\$7,904	\$56,000 [†]	(\$50,000)	\$45,004
Grants	138,314	130,874	(234,243)	97,105	-	-	-	43,000
Research grants	75,179	106,374	(90,131)	74,797	-	-	-	-
Regional medical programs	-	-	(-)	-	-	-	-	43,000
Research fellowships	19,400	6,975	(9,133)	3,675	-	-	-	-
Training grants	43,735	17,525	(94,448)	18,633	-	-	-	-
Mental health staffing	-	-	(33,781)	-	-	-	-	-
State control program	-	-	(6,750)	-	-	-	-	-
Direct operations	6,799	33,896	(29,876)	19,191	7,904	-	-	2,004
Direct research	-	12,468	(13,076)	9,436	-	-	-	-
Collaborative studies	3,426	17,696	(3,719)	6,596	-	-	-	-
Biologics standards	-	-	(-)	-	7,904	-	-	-
Training	264	266	(1,434)	67	-	-	-	-
Prof. & tech. assist.	-	-	(6,992)	-	-	-	-	578
Review & approval	2,085	2,566	(3,725)	2,261	-	-	-	658
Program direction	1,024	900	(930)	831	-	-	-	768
Computer res. & tech.	-	-	(-)	-	-	-	-	-
Construction grants	-	-	-	-	-	56,000 [†]	(50,000)	-

[†]Includes \$6 million for Mental Retardation Facilities.

NIH FUNDS AVAILABLE FOR OBLIGATION, FY 1967
(In thousands)
Including Environmental Health Sciences, Excluding Mental Health

Activity	Total	Gen. res. & serv.	Allergy	Arthritis	Cancer	Child health	Dental	Gen. med. sciences	Heart	Neurology	Regional med. prog.	Envir. health
Total NIH*	\$1,110,638 [†]	\$71,700	\$87,244	\$132,971	\$172,455	\$65,161	\$28,404	\$146,031	\$163,661	\$113,244	\$66,938 [§]	\$13,322
Grants	841,475	60,175	61,809	111,615	92,788	54,012	22,215	138,307	130,496	93,804	64,934	11,320
Research grants	591,209	58,625	49,006	90,629	77,550	40,593	15,126	75,172	105,996	71,496	—	7,016
Regional medical programs	64,934	—	—	—	—	—	—	—	—	—	64,934	—
Research fellowships	50,840	1,300	3,700	6,129	4,170	3,800	1,691	19,400	6,975	3,675	—	—
Training grants	134,492	250	9,103	14,857	11,068	9,619	5,398	43,735	17,525	18,633	—	4,304
Direct operations	228,136	11,525	25,435	21,356	79,667	11,149	6,189	7,724	33,165	19,440	2,004	2,002
Laboratory & clinical res.	71,269	—	12,488	13,248	14,776	5,257	4,040	—	11,469	8,485	—	1,506
Collaborative res. & develop.	104,169	1,766	9,954	5,124	59,815	1,377	711	3,429	16,428	5,565	—	—
Epidem., Bio. & field studies	9,595	—	1,289	730	1,370	1,921	427	—	1,590	2,268	—	—
Biologics standards	8,480	—	—	—	—	—	—	—	—	—	—	—
Training	924	183	—	—	—	90	—	291	289	71	—	—
Prof. & tech. assist.	578	—	—	—	—	—	—	—	—	—	578	—
Review & approval	17,923	1,395	1,358	1,924	2,449	1,690	619	2,778	2,571	2,180	658	301
Program direction	11,431	4,414	346	330	1,257	814	392	1,226	818	871	768	195
Computer res. & tech.	3,767	3,767	—	—	—	—	—	—	—	—	—	—
Construction grants	41,027	—	—	—	—	—	—	—	—	—	—	—
Administrative reserve	(22,552 [‡])	(268)	(164)	(1,724)	(313)	(1,892)	(43)	(25)	(315)	(2,482)	(12)	(85)

* Excludes direct construction, special foreign currency program, transfers to other accounts, and administrative reserves (which are shown separately below).

[†] Contains biologics standards and health research facilities construction, though separate columns for these activities are not shown.

[‡] Includes \$15 million reserve for health research facilities construction and \$229 thousand for biologics standards. [§] Includes \$21,934 thousand carried over from the previous fiscal year, \$11,982 thousand of which expired December 1966. Also includes \$21 million which is expected to be carried over into FY 1968.

ESTIMATED DISTRIBUTION OF NIH RESEARCH GRANTS BY PROGRAM, FY 1967
1967 Column of the 1968 President's Budget
(In thousands)

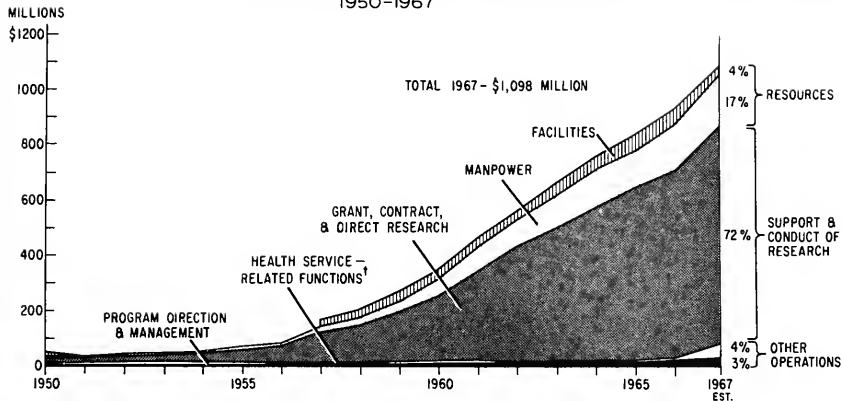
Including Environmental Health Sciences, Excluding Mental Health

Program	Total	Gen. res. & serv.*	Allergy	Arthritis	Cancer	Child health	Dental	Gen. med. sciences	Heart	Neurology	Envir. health
Total	\$591,209	\$58,625	\$49,006	\$90,629	\$77,550	\$40,593	\$15,126	\$75,172	\$105,996	\$71,496	\$7,016
Regular program	447,929	4,034	42,780	80,823	56,916	36,186	10,605	63,116	87,770	61,183	4,516
Noncompeting projects	284,391	192	27,404	52,103	37,648	23,475	7,449	38,226	63,456	31,578	2,860
Competing projects	163,538	3,842	15,376	28,720	19,268	12,711	3,156	24,890	24,314	29,605	1,656
Special programs	143,280	54,591	6,226	9,806	20,634	4,407	4,521	12,056	18,226	10,313	2,500
General research support grants	45,266 [†]	53	4,576	8,286	5,793	3,807	1,079	6,441	8,943	6,288	—
Scientific evaluation	2,541	325	50	20	151	100	42	1,615	163	75	—
Intnl. ctrs. for med. res. & training	2,800	2,800	—	—	—	—	—	—	—	—	—
Gargas Memorial Laboratory	500	—	500	—	—	—	—	—	—	—	—
General clinical research centers	28,463	28,463	—	—	—	—	—	—	—	—	—
Categorical clinical res. centers	11,150	—	1,100	1,500	—	500	400	—	4,500	3,150	—
Special research resources	10,850	10,850	—	—	—	—	—	—	—	—	—
Animal resources	3,100	3,100	—	—	—	—	—	—	—	—	—
Primate centers	9,000	9,000	—	—	—	—	—	—	—	—	—
Leukemia research support centers	1,500	—	—	—	1,500	—	—	—	—	—	—
Heart cooperative drug study	3,820	—	—	—	—	—	—	—	3,820	—	—
Pharmacology-toxicology research	3,500	—	—	—	—	—	—	3,500	—	—	—
Life island units	600	—	—	—	600	—	—	—	—	—	—
Specialized research centers	14,190	—	—	—	12,590	—	—	—	800	800	—
Dental research institutes	3,000	—	—	—	—	—	3,000	—	—	—	—
Anesthesiology centers	500	—	—	—	—	—	—	500	—	—	—
Environmental health sci. insts.	2,500	—	—	—	—	—	—	—	—	—	2,500

* Includes allocations for Division of Research Facilities and Resources, and Office of International Research, total of \$51,700,000.

[†] Excludes \$6,434,000, National Institute of Mental Health's portion of

NIH OBLIGATED FUNDS BY FUNCTION,* 1950-1967



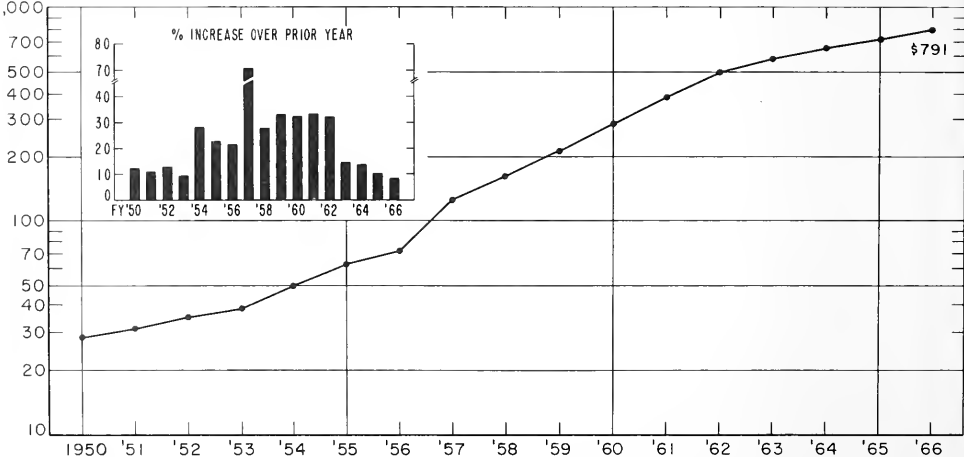
* Excludes National Institute of Mental Health.

† State control programs (prior to 1964), biologic control, professional and technical assistance, regional medical programs.

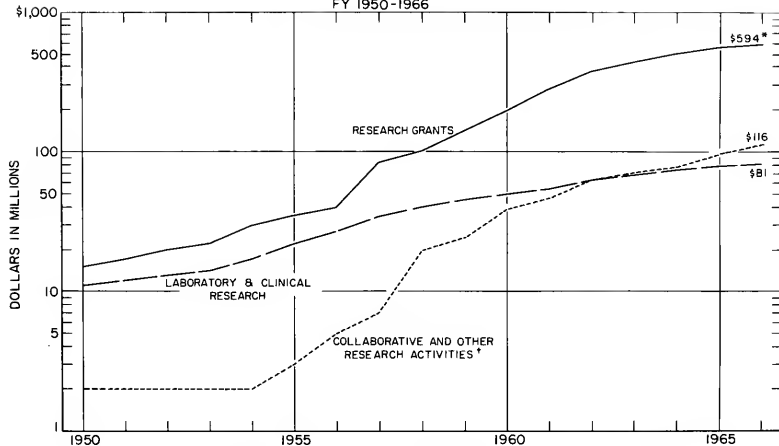
TOTAL NIH RESEARCH OBLIGATIONS, FY 1950-1966

Millions

\$1,000



NIH FUNDS OBLIGATED FOR RESEARCH FY 1950-1966



*Includes adjustments made after initial award.

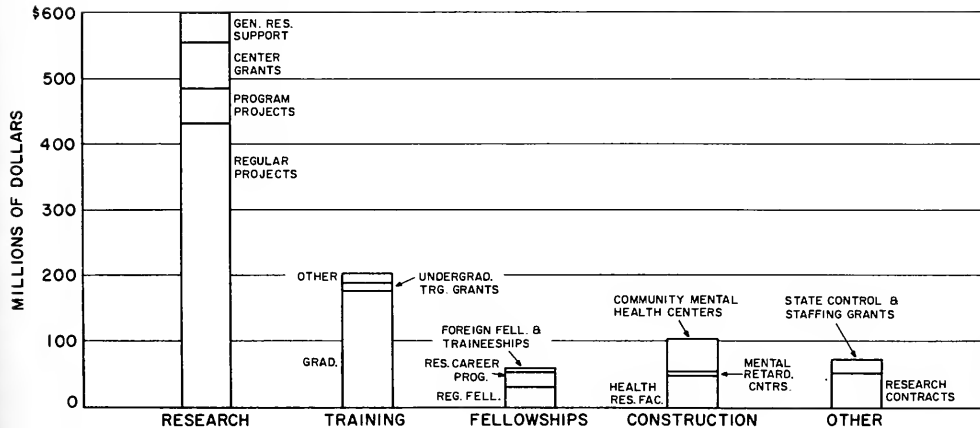
*Collaborative studies, P L 480 program, and research administration.

NIH GRANTS AND AWARDS, FY 1955-1966
(Dollars in millions)

Fiscal year	Total amount*	Research grants		Construction grants		Training grants		Fellowships [†] and traineeships		Research contracts	
		No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
1955	\$ 55.2	3,280	\$ 35.5	—	\$ —	557	\$ 10.3	1,385	\$ 3.7	—	\$ —
1956	64.7	3,475	40.4	—	—	699	13.5	1,816	4.4	—	—
1957	156.1	6,300	82.9	109	30.0	1,119	25.6	2,575	7.3	43	1.9
1958	191.3	7,134	101.3	177	30.2	1,367	31.9	2,759	8.5	176	11.0
1959	260.2	9,056	141.4	205	31.6	1,934	48.9	3,306	12.7	321	17.2
1960	354.7	11,571	198.8	171	30.8	2,626	73.7	4,255	17.9	286	23.1
1961	481.0	13,534	272.9	156	38.0	3,586	108.4	4,480	24.3	311	22.9
1962	600.3	14,975	372.1	112	36.8	3,697	115.9	4,085	29.6	419	28.1
1963	710.1	15,973	430.9	178	51.3	4,114	140.6	4,561	38.0	496	38.3
1964	815.9	16,020	497.9	129	53.9	4,346	165.9	4,872	44.5	597	42.7
1965	892.8	15,792	538.8	120	64.9 [‡]	4,568	183.9	5,297	49.8	474	48.6
1966	1,042.2	15,686	601.0	178	100.5 [§]	4,731	205.7	5,842	55.7	590	53.3

*Includes State control programs, community demonstration projects, staffing grants, and planning grants. †Includes part-time and postsaphamore research fellows through FY 1961. ‡Includes \$13.7 million for centers for research on mental retardation and related aspects of human development. §Includes \$6.2 million for centers for research on mental retardation and related aspects of human development, and \$41.8 million for community mental health centers.

NIH GRANTS AND AWARDS BY PROGRAM, FY 1966



NIH GRANTS, FELLOWSHIPS AND RESEARCH CONTRACTS, FY 1966*
(Dollars in millions)

Institute, Division or Office	Total amount	Research grants		Construction grants [†]		Training grants		Fellowships [‡]		Research contracts	
		Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	\$1,042.2 [§]	15,153	\$601.0	177	\$100.5	4,473	\$205.7	5,823	\$55.7	590	\$53.3
Allergy	57.3	1,317	39.1	—	—	193	9.0	268	3.4	67	5.8
Arthritis	98.7	2,707	76.6	—	—	324	14.2	447	5.5	35	2.3
Cancer	111.0	1,482	64.3	—	—	337	10.3	264	3.2	250	33.1
Child health	46.1	1,122	34.3	—	—	134	8.2	225	2.9	16	0.7
Dental	17.4	331	10.3	—	—	110	5.1	123	1.4	15	0.5
General	116.4	1,689	54.9	—	—	713	41.2	2,371	18.4	16	1.9
Heart	115.1	2,310	87.7	—	—	406	17.3	471	6.1	27	3.9
Mental	237.7	1,927	78.4	93	41.8	1,954	84.9	1,048	8.4	67	2.0
Neurology	79.4	1,592	57.3	—	—	302	15.4	440	5.1	64	1.5
DRFR	153.9	543	95.1	84	58.7	—	—	—	—	2	0.1
DRMP	3.8	—	—	—	—	—	—	—	—	—	—
DBS, DRG, DRS	0.8	—	—	—	—	—	—	—	—	16	0.8
OIR	4.1	133	2.8	—	—	—	—	166	1.2	6	0.1
OD, other	0.4	—	—	—	—	—	—	—	—	9	0.4

* Excludes scientific evaluation grants as follows: research grants, \$2.5 million; training grants, \$0.7 million; and fellowships, \$0.03 million.

† Includes grants for health research facilities, mental retardation centers, and community mental health centers.

‡ Includes 1,343 research career awards and 217 traineeships.

§ Includes \$6.8 million for State control programs (NIMH), \$15.4 million for staffing grants (NIMH), and \$3.8 million for planning grants (DRMP), though columns have been omitted to save space.

NIH RESEARCH GRANT AWARDS BY CATEGORY, FY 1965-1966
(Dollars in thousands)

Type of grant	1965				1966			
	Number	%	Dollars	%	Number	%	Dollars	%
Total	15,183	100.0	\$538,763	100.0	15,153	100.0	\$600,973	100.0
Research projects	14,498	95.5	394,039	73.1	14,268	94.2	428,754	71.3
Projects (traditional)	13,391	88.2	348,210	64.6	12,978	85.6	372,051	61.9
Mental health projects	302	2.0	16,707	3.1	287	1.9	18,206	3.0
Hospital improvements grants	162	1.1	11,974	2.2	229	1.5	17,169	2.9
Chemotherapy & psychopharmacology	206	1.3	9,215	1.7	248	1.6	11,725	2.0
Mental health specials	41	0.3	2,987	0.6	31	0.2	2,925	0.5
International centers for med. res. & training	6	0.0	2,491	0.5	6	0.0	2,423	0.4
Conferences	61	0.4	1,148	0.2	80	0.5	1,604	0.3
Small grants	192	1.3	740	0.1	233	1.5	897	0.1
Other	137	0.9	567	0.1	176	1.2	1,754	0.3
Program projects & centers	412	2.7	100,739	18.7	529	3.5	127,412	21.2
Research program projects	222	1.5	44,546	8.3	271	1.8	55,737	9.3
General clinical research centers	74	0.5	27,768	5.1	88	0.6	31,295	5.2
Clinical research centers	57	0.4	13,819	2.6	74	0.5	21,463	3.6
Animal resources	21	0.1	8,025	1.5	34	0.2	8,420	1.4
Special research resources	38	0.2	6,581	1.2	59	0.4	9,808	1.6
Pharmacology-toxicology centers	-	-	-	-	3	0.0	689	0.1
General research support	273	1.8	43,985	8.2	263	1.7	38,807	6.5
Biomedical science support	-	-	-	-	91	0.6	5,000	0.8
Health science support	-	-	-	-	2	0.0	1,000	0.2

NIH RESEARCH GRANTS BY TYPE OF GRANTEE INSTITUTION, FY 1954-1966*
(Dollars in millions)

Type of institution	1954	1956	1958	1960	1962	1964		1965		1966	
						Amt.	%	Amt.	%	Amt.	%
Total†	\$28.9	\$40.4	\$101.3	\$198.8	\$352.1	\$462.9	100.0	\$494.8	100.0	\$556.2	100.0
Colleges and universities	22.4	30.7	74.7	142.8	256.9	333.0	72.0	356.8	72.1	406.4	73.1
Schools of medicine	16.7	21.5	51.4	93.9	175.6	224.5	48.6	238.2	48.2	271.9	48.9
Other health professional schools	1.0	1.7	5.1	9.8	14.7	17.6	3.8	19.4	3.9	19.9	3.6
Universities (excluding health professional schools)	4.7	7.5	18.2	39.1	66.6	90.9	19.6	99.2	20.0	114.6	20.6
Hospitals	4.8	6.5	16.0	30.3	45.5	73.8	15.9	83.2	16.8	75.7	13.6
Private nonprofit organizations	1.1	2.6	6.7	14.2	25.2	30.6	6.6	29.5	6.0	53.7	9.6
Foreign institutions	0.2	0.3	1.8	5.9	14.1	12.9	2.7	10.8	2.2	10.0	1.8
All other‡	0.4	0.3	2.1	5.6	10.4	12.6	2.7	14.5	2.9	10.4	1.8

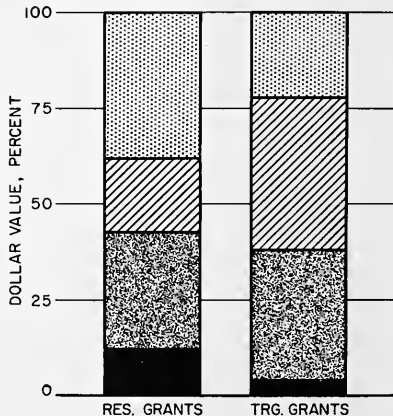
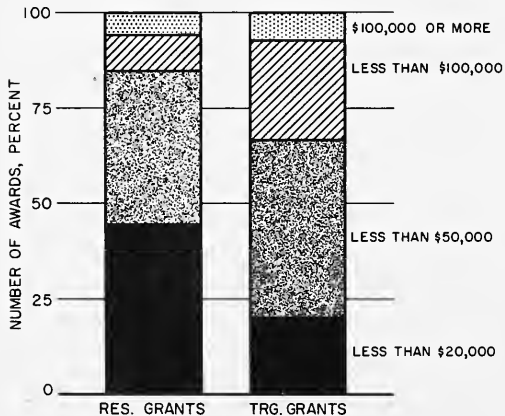
*Data for years prior to FY 1966 are based on reports of the Science Information Exchange. †Excludes general research support grants, \$44.8 million for 1966. ‡Includes grants to government agencies, individuals, and industry.

DISTRIBUTION OF EXPENDITURES UNDER NIH GRANTS AND AWARDS
By Program and Expenditure Categories

Expenditure category	Amount (in thousands)					Percentage distribution				
	Traditional research projects*	Program projects and centers †	Resource grants ‡	General research support ‡	Training grants ‡	Traditional research projects*	Program projects and centers †	Resource grants ‡	General research support ‡	Training grants ‡
Total	\$312,439	\$45,630	\$31,208	\$29,591	\$91,024	100.0%	100.0%	100.0%	100.0%	100.0%
Indirect costs	44,980	5,853	2,724	4,030	6,139	14.4	12.8	8.7	13.6	6.7
Direct costs	267,459	39,777	28,484	25,561	84,885	85.6	87.2	91.3	86.4	93.3
Stipends	\$	\$	—	\$	39,496	\$	\$	—	\$	43.4
Personnel	163,976	22,808	12,838	13,424	27,612	52.5	50.0	41.1	45.4	30.4
Prin. invest. salaries	15,973	690	518	—	\$	5.1	1.5	1.6	—	\$
Other salaries	139,704	20,817	11,700	12,749	\$	44.7	45.6	37.5	43.1	\$
Other personnel costs	8,299	1,301	620	675	\$	2.7	2.9	2.0	2.3	\$
Travel	5,332	605	178	213	1,671	1.7	1.3	0.6	0.7	1.8
Domestic	4,554	546	145	179	1,475	1.5	1.2	0.5	0.6	1.6
Foreign	778	59	33	34	196	0.2	0.1	0.1	0.1	0.2
Permanent equipment	37,241	4,822	3,047	5,925	5,015	11.9	10.6	9.8	20.0	5.5
Consumable supplies	47,956	4,461	1,680	2,552	4,751	15.3	9.8	5.4	8.6	5.2
Hospitalization	516	4,345	8,384	21	\$	0.2	9.5	26.9	0.1	\$
Other expenses	12,438	2,736	2,357	3,426	6,340	3.9	6.0	7.5	11.6	7.0

*Estimate based on a 10% sample of reports of expenditures in FY 1964 funded research grants. †Expenditures on FY 1964 funded grants. ‡Expenditures on FY 1962 graduate training grants. §Not available.

PERCENTAGE DISTRIBUTION OF NIH RESEARCH AND TRAINING GRANTS BY DOLLAR-AWARD INTERVALS
FY 1966



TOTAL NIH RESEARCH GRANTS BY DOLLAR-AWARD INTERVALS, FY 1965-1966
(Dollars in thousands)

Dollar-award interval	Fiscal year 1965 (Median award - \$20,330)				Fiscal year 1966 (Median award - \$23,260)			
	Number of awards	Percent of awards	Dollar value of awards	Percent of dollars	Number of awards	Percent of awards	Dollar value of awards	Percent of dollars
Total	15,183	100.0	\$538,763	100.0	15,153	100.0	\$600,973	100.0
Less than 5,000	966	6.4	2,970	0.6	951	6.3	2,928	0.5
5,000 - 9,999	1,628	10.7	12,671	2.4	1,363	9.0	10,521	1.8
10,000 - 19,999	4,894	32.2	72,913	13.5	4,209	27.8	63,271	10.5
20,000 - 29,999	3,157	20.8	77,135	14.3	3,228	21.3	79,598	13.2
30,000 - 39,999	1,689	11.1	58,108	10.8	1,849	12.2	63,582	10.6
40,000 - 49,999	823	5.4	36,776	6.8	1,014	6.7	45,261	7.5
50,000 - 74,999	855	5.6	51,581	9.6	1,075	7.1	64,671	10.8
75,000 - 99,999	383	2.5	33,082	6.1	519	3.4	45,080	7.5
100,000 - 149,999	302	2.0	36,003	6.7	372	2.5	43,967	7.3
150,000 - 199,999	134	0.9	23,210	4.3	181	1.2	31,519	5.2
200,000 - 299,999	157	1.0	39,060	7.2	177	1.2	42,724	7.1
300,000 - 999,999	190	1.3	87,846	16.3	205	1.4	90,962	15.1
1,000,000 and over	5	-	7,407	1.4	10	0.1	16,890	2.8

APPROVAL RATES FOR NEW NIH RESEARCH GRANT APPLICATIONS REVIEWED, 1962-1965*

Institute or Division	1962			1963			1964			1965		
	Number reviewed	No.	% approved Dollars†	Number reviewed	No.	% approved Dollars†	Number reviewed	No.	% approved Dollars†	Number reviewed	No.	% approved Dollars†
Total NIH	6,898	52.0	48.0	6,953	53.6	44.7	6,724	51.2	42.7	6,577	51.5	43.7
Allergy	603	57.4	54.8	720	51.4	46.1	568	49.3	45.6	514	54.5	49.8
Arthritis	1,065	55.3	51.7	1,134	57.5	56.0	1,028	55.5	47.1	928	53.6	46.3
Cancer	683	45.8	52.6	650	48.0	48.7	513	43.5	37.4	452	44.9	44.5
Child health	—	—	—	—	—	—	302	57.6	47.0	572	46.7	33.6
Dental	261	39.5	34.5	214	59.8	54.8	180	60.0	51.0	206	52.9	37.7
General	1,167	55.3	48.7	1,111	61.5	51.1	842	59.4	51.5	857	63.6	56.5
Heart	877	53.5	55.5	860	51.4	38.4	775	48.6	44.9	733	48.4	39.3
Mental	1,618	46.9	33.0	1,576	47.8	31.6	1,840	43.6	32.7	1,590	43.5	37.5
Neurology	624	58.5	51.9	654	56.1	42.5	613	58.7	48.5	624	58.0	48.6
DRFR	—	—	—	34	50.0	45.4	46	65.2	48.6	59	62.7	45.3
OIR	—	—	—	—	—	—	17	100.0	98.1	42	95.2	99.6

* Based on council-year, which consists of June, November, and March meetings.

† Ratio of amounts awarded to amounts requested—i.e., ratio of awarded dollars plus council-approved dollars on applications awaiting final action to amounts requested on approved and disapproved applications.

NIH RESEARCH GRANTS BY NUMBER OF YEARS' SUPPORT APPROVED, FY 1962-1966

Fiscal year	Number of competing awards	Percentage distribution by number of years' support approved						
		1	2	3	4	5	6	7
1962	5,971	20.5	18.0	36.6	5.8	15.3	0.5	3.4
1963	5,979	21.6	18.7	37.4	11.3	8.3	0.6	2.1
1964	5,706	24.6	16.0	39.0	5.0	12.6	0.6	2.2
1965	5,322	21.5	15.9	41.4	5.1	14.1	0.5	1.6
1966	4,988	20.3	14.2	42.1	6.8	14.0	0.4	2.2

NIH TRAINING PROGRAM BY TYPE OF AWARD, FY 1957-1966

(In thousands)

	1957	1960	1961	1962	1963	1964	1965	1966
Total	\$32,898	\$91,654	\$132,696	\$145,456	\$178,594	\$210,377	\$233,726	\$261,407
Training grants	25,629	73,744 [†]	108,378 [†]	115,857	140,639	165,908	183,931	205,733
Fellowships	5,416	14,859	22,069	26,773	35,805	42,205	47,614	53,627
Full-time regular fellows	3,985	10,081	12,883	16,088	20,412	21,215	23,987	26,691
Predoctoral	1,125	3,237	3,696	4,650	7,604	8,500	10,641	12,373
Postdoctoral	2,093	5,128	6,625	8,311	8,174	8,118	7,968	8,192
Special	688	1,515	2,292	2,769	3,813	4,121	4,925	5,691
Other*	79	201	270	358	821	476	454	435
Part-time students	622	817	748	13 [‡]	—	—	—	—
Other	809	3,961	8,438	10,672	15,393	20,991	23,626	26,936
Pastaphamare research fellows	337	514	482	4 [‡]	—	—	—	—
Foreign fellows	—	448	743	700	1,199	1,199	1,199	1,190
Senior fellows & special (grants)	472	2,999	7,213	— [§]	—	—	—	—
Research career development awards	—	—	—	7,423	10,276	14,285	16,826	20,355
Research career awards	—	—	—	2,545	3,918	5,507	5,601	5,391
Traineeships	1,853	3,051	2,249	2,826	2,150	2,264	2,181	2,047

* Supply grants, special allowances, and supplemental fees applicable to previous fiscal years' awards.

[†] Includes amounts for forward financing.[‡] Included under general research support program beginning in FY 1962.[§] Transferred to RCA and RCDA programs.

NUMBER OF PERSONS IN NIH TRAINING PROGRAMS, FY 1966

Institute or Division	Total		Trainees*				Fellowships & traineeships		Research career & research career development awards
			Under training grants †		Under gen. res. support grants†				
	Past- doctorol	Pre- dactarol	Past- doctorol	Pre- dactarol	Post- doctorol	Pre- doctorol	Post- doctorol	Pre- doctorol	Post- doctorol
Total	10,186	20,385	6,757	15,787	104	2,228	2,078	2,370	1,247
Allergy	601	683	340	683	—	—	151	—	110
Arthritis	1,112	273	680	273	—	—	292	—	140
Cancer	634	349	376	348	—	—	174	1	84
Child Health	456	425	240	423	—	—	136	2	80
Dental	350	223	239	213	—	—	58	10	53
General	1,894	8,419	1,136	6,831	—	—	425	1,588	333
Heart	1,214	606	777	596	—	—	253	10	184
Mental	2,365	6,976	2,095	6,218	—	—	127	758	143
Neurology	1,303	203	874	202	—	—	309	1	120
Research Facilities & Resources	104	2,228	—	—	104	2,228	—	—	—
Office of International Research	153	—	—	—	—	—	153	—	—

* Preliminary data. Includes 14,166 full-time and 10,631 part-time trainees.

† FY 1965 funds.

NUMBER OF NIH FELLOWSHIPS AND TRAINEES BY DISCIPLINE, FY 1966

Discipline	Total*				Fellowships†		Trainees*					
							Under training grants				Under general research grants	
	Postdoctoral Total	Full-time	Predocctoral Total	Full-time	Post- doctoral	Pre- doctoral	Postdoctoral Total	Full-time‡	Predocctoral Total	Full-time‡		
Total	10,186	8,625	20,385	11,268	3,325	2,370	6,757	5,281	15,787	8,855	2,332§	
Biochemistry	748	643	1,656	1,020	491	236	256	151	1,225	773	196	
Microbiology	539	464	1,331	830	306	135	229	157	1,089	691	111	
Physiology	572	483	1,241	685	355	134	213	127	913	541	198	
Genetics	259	203	586	378	134	80	125	69	491	298	15	
Biology	55	44	297	188	22	49	33	22	242	139	8	
Other basic sciences	1,564	1,274	5,454	1,994	618	406	1,003	635	4,659	1,584	399	
Internal medicine	1,564	1,332	628	31	442	1	1,109	888	387	30	253	
Psychiatry	1,880	1,791	114	15	26	-	1,853	1,765	15	15	100	
Other clin. med.	1,808	1,479	926	36	353	-	1,430	1,121	285	35	666	
Clinical dentistry	203	144	304	21	50	1	120	92	48	16	288	
Nursing	3	2	1,120	533	1	3	2	2	1,117	530	-	
Social work	3	3	1,710	1,482	2	12	1	1	1,698	1,470	-	
Other health-rel. pro's	337	226	1,279	683	114	88	210	108	1,146	588	58	
Psychology	385	357	2,157	2,009	258	463	127	99	1,676	1,546	18	
Social sciences	58	53	885	801	34	289	24	19	579	511	17	
Physical sciences	127	119	596	530	112	473	15	7	121	57	2	
Other	14	8	99	32	7	-	7	1	96	31	3	

*Preliminary data; FY 1965 funds. †Includes fellowships, traineeships, and research career awards, which are all full-time. ‡Defined as those reporting 100 per cent of their time in training for periods of 8 months or more. §Includes 104 postdoctoral trainees (19 full-time and 85 part-time) and 2,228 predocctoral trainees (43 full-time and 2,185 part-time).

TOTAL NIH TRAINING GRANTS BY DOLLAR-AWARD INTERVALS, FY 1965-1966
(Dallars in thousands)

Dollar-award interval	Fiscal year 1965 (Median award - \$35,990)				Fiscal year 1966 (Median award - \$36,750)			
	Number of awards	Percent of awards	Dollar value of awards	Percent of dollars	Number of awards	Percent of awards	Dollar value of awards	Percent of dollars
Total	4,150	100.0	\$183,931	100.0	4,473	100.0	\$205,732	100.0
Less than 5,000	145	3.5	348	0.2	210	4.7	487	0.2
5,000 - 9,999	151	3.6	1,060	0.6	141	3.2	1,064	0.5
10,000 - 19,999	475	11.4	7,288	4.0	515	11.5	7,848	3.8
20,000 - 29,999	943	22.7	23,440	12.7	953	21.3	23,691	11.5
30,000 - 39,999	603	14.5	21,044	11.4	619	13.8	21,725	10.6
40,000 - 49,999	536	12.9	24,114	13.1	543	12.1	24,382	11.9
50,000 - 69,999	635	15.3	37,001	20.1	693	15.5	40,355	19.6
70,000 - 99,999	396	9.5	32,634	17.7	491	11.0	40,746	19.8
100,000 - 149,999	202	4.9	23,986	13.0	219	4.9	26,475	12.9
150,000 - 199,999	42	1.0	7,138	3.9	54	1.2	9,293	4.5
200,000 - 299,999	18	0.4	4,262	2.3	25	0.6	5,961	2.9
300,000 and over	4	0.1	1,616	0.9	10	0.2	3,705	1.8

GRANTS FOR HEALTH RESEARCH FACILITIES CONSTRUCTION BY TYPE OF FACILITY, FY 1957-1966*
(Thousands of dollars)

Type of facility	1957-1963		1964		1965		1966		Total FY 1957-1966†	
	Dollars	Percent	Dollars	Percent	Dollars	Percent	Dollars	Percent	Dollars	Percent
Total	\$224,403	100.0	\$52,883	100.0	\$50,149	100.0	\$52,565	100.0	\$379,998	100.0
Schools	179,166	79.8	37,110	70.2	43,199	86.1	43,943	83.6	303,418	79.8
Medical	116,402	51.9	21,635	40.9	32,650	65.1	31,587	60.1	202,274	53.2
Dental	2,637	1.2	1,986	3.8	1,625	3.2	3,081	5.9	9,329	2.5
Public Health	4,177	1.9	526	1.0	469	0.9	3,388	6.4	8,559	2.3
Other	55,951	24.9	12,963	24.5	8,456	16.9	5,886	11.2	83,256	21.9
Private nonprofit institutions	36,652	16.3	10,482	19.8	5,903	11.8	7,199	13.7	60,236	15.9
Hospitals	20,939	9.3	7,625	14.4	3,537	7.1	4,933	9.4	37,035	9.7
Other	15,713	7.0	2,856	5.4	2,365	4.7	2,266	4.3	23,201	6.1
Other public institutions	8,584	3.8	5,291	10.0	1,047	2.1	1,423	2.7	16,345	4.3
Hospitals	6,286	2.8	5,221	9.9	895	1.8	1,423	2.7	13,824	3.6
Other	2,298	1.0	70	0.1	152	0.3	—	—	2,520	0.7

*Amounts of awards have been adjusted to reflect refunds due to completion of projects for less than estimated cost, reductions in estimates, etc. † Does not include \$20.0 million for centers for research on mental retardation and related aspects of human development.

NIH GRANTS AND AWARDS BY STATE AND TYPE OF AWARD, FY 1966
(Dollars in thousands*)

State	Total dollars †	Research grants		Research contracts		Construction grants ‡		Training grants		Fellowships & traineeships		State central grants		Staffing grants	
		No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
Total U.S. & Possessions	\$1,027,959	14,434	\$590,932	568	\$52,686	177	\$100,543	4,462	\$205,277	5,436	\$52,547	54	\$6,750	55	\$15,430
Alabama	9,529	106	4,113	9	2,593	1	1,000	42	1,396	23	306	1	121	-	-
Alaska	531	3	443	1	6	-	-	-	-	1	15	1	67	-	-
Arizona	4,160	44	1,062	2	84	4	2,106	15	454	13	93	1	64	1	297
Arkansas	3,895	62	2,158	-	-	2	933	22	627	7	106	1	71	-	-
California	113,454	1,578	70,772	42	3,650	12	8,863	406	20,500	765	6,181	1	495	12	2,993
Colorado	11,776	211	6,926	2	269	2	590	68	3,123	72	661	1	67	1	140
Connecticut	24,950	299	10,599	8	299	3	7,047	98	4,918	170	1,602	1	78	-	-
Delaware	1,006	19	599	-	-	1	200	4	62	1	5	1	67	1	73
District of Columbia	16,570	205	8,630	36	2,068	1	666	90	3,985	44	379	1	62	2	780
Florida	16,795	282	8,999	7	545	8	2,707	76	3,634	66	727	1	183	-	-
Georgia	11,523	176	6,285	2	76	3	1,073	77	3,402	46	539	1	148	-	-
Hawaii	4,324	52	1,639	7	292	3	1,562	16	582	9	74	1	67	-	-
Idaho	569	9	412	-	-	-	-	4	85	1	5	1	67	-	-
Illinois	52,908	853	31,864	22	2,362	6	2,572	252	12,413	357	3,400	1	297	-	-
Indiana	13,391	240	8,449	12	525	1	545	66	2,718	131	1,010	1	144	-	-
Iowa	10,278	180	5,736	1	21	1	1,238	66	2,517	75	680	1	86	-	-
Kansas	11,025	166	4,623	5	346	3	2,305	60	2,753	53	574	1	67	2	159

Continued

NIH GRANTS AND AWARDS BY STATE AND TYPE OF AWARD, FY 1966 (Cont.)
(Dollars in thousands*)

State	Total dollars †	Research grants		Research contracts		Construction grants ‡		Training grants		Fellowships & traineeships		State central grants		Staffing grants	
		No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
Kentucky	\$ 10,251	144	\$ 4,095	2	\$ 41	3	\$ 3,445	55	\$ 1,834	33	\$ 393	1	\$ 110	2	\$ 333
Louisiana	13,955	181	9,004	7	269	2	752	72	3,320	35	365	1	120	1	125
Maine	2,299	37	1,376	2	212	2	407	5	160	5	77	1	67	—	—
Maryland	39,391	449	20,321	75	7,816	5	1,504	136	7,082	234	2,350	1	101	1	217
Massachusetts	96,285	1,154	56,320	50	6,051	11	10,662	312	16,284	681	6,292	1	133	2	543
Michigan	34,910	472	17,044	23	2,560	6	5,015	161	7,411	202	1,602	1	246	4	1,032
Minnesota	24,262	379	14,619	9	552	5	1,523	124	6,438	97	1,022	1	108	—	—
Mississippi	3,160	72	1,964	—	—	—	—	25	929	20	177	1	90	—	—
Missouri	30,421	343	14,080	7	743	10	6,736	135	5,843	79	944	1	105	3	1,571
Montana	943	28	616	—	—	—	—	5	171	11	89	1	67	—	—
Nebraska	4,298	91	2,707	—	—	—	—	43	1,372	16	154	1	65	—	—
Nevada	363	7	212	—	—	—	—	4	94	—	—	1	57	—	—
New Hampshire	2,884	60	1,852	1	5	1	285	16	406	22	270	1	66	—	—
New Jersey	15,286	227	8,220	16	2,996	1	1,541	57	1,825	69	511	1	193	—	—
New Mexico	2,423	44	1,442	1	5	1	505	10	277	3	23	1	67	1	104
New York	155,072	2,228	102,507	82	7,142	17	5,596	580	29,030	689	7,215	1	491	6	2,718
North Carolina	26,029	365	14,054	8	472	5	1,416	153	7,991	147	1,641	1	168	—	—
North Dakota	841	16	315	3	93	1	46	10	184	14	85	1	67	1	51
Ohio	33,915	515	17,999	19	1,322	11	5,781	143	6,222	163	1,905	1	274	2	412
Oklahoma	8,139	147	4,775	—	—	1	531	49	1,962	29	342	1	79	1	450

Continued

NIH GRANTS AND AWARDS BY STATE AND TYPE OF AWARD, FY 1966 (Cont.)
(Dollars in thousands*)

State	Total dollars †	Research grants		Research contracts		Construction grants ‡		Training grants		Fellowships & traineeships		State control grants		Staffing grants	
		No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars	No.	Dollars
Oregon	\$ 12,759	197	\$ 8,862	1	\$ 45	2	\$ 481	55	\$ 2,401	85	\$ 740	1	\$ 66	1	\$ 164
Pennsylvania	68,103	957	40,328	23	2,182	15	6,638	295	13,158	308	3,444	1	350	5	2,003
Rhode Island	5,352	82	2,768	—	—	2	1,402	19	934	28	182	1	66	—	—
South Carolina	3,005	45	1,090	—	—	2	1,087	21	693	5	42	1	93	—	—
South Dakota	749	16	358	—	—	—	—	11	245	9	86	1	60	—	—
Tennessee	15,958	240	10,135	3	47	3	871	92	3,860	84	913	1	132	—	—
Texas	34,993	437	20,781	13	1,311	7	3,797	127	5,536	113	1,253	1	325	1	719
Utah	7,810	102	3,846	3	200	2	442	43	2,085	54	600	1	58	1	123
Vermont	2,989	61	1,664	1	5	2	107	21	697	10	154	1	67	—	—
Virginia	13,125	153	5,970	34	3,303	2	856	69	2,440	32	413	1	143	—	—
Washington	19,784	291	11,501	7	792	2	1,189	89	4,771	124	1,284	1	86	1	161
West Virginia	3,188	63	1,768	2	32	1	377	24	650	7	84	1	67	2	210
Wisconsin	21,911	306	13,581	17	1,047	2	840	108	4,827	189	1,495	1	121	—	—
Wyoming	353	6	221	—	—	—	—	2	50	3	18	1	64	—	—
Guam	67	—	—	—	—	—	—	—	—	—	—	1	67	—	—
Puerto Rico	5,936	34	1,225	3	310	2	3,307	29	928	2	25	1	89	1	52
Virgin Islands	67	—	—	—	—	—	—	—	—	—	—	1	67	—	—

*Dollars may not add because of rounding. †Includes regional medical program planning grants, though additional column has been omitted to save space.

‡Includes grants for health research facilities, for centers for research on mental retardation and related aspects of human development, and for community health centers.

NIH FOREIGN GRANTS AND AWARDS*, FY 1966

Country	Total awards †		Research grants & contracts		U.S. fellows & trainees abroad		International research fellows		Visiting scientists		Training grants		Foreign currency program ‡ Amount
	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	
World total	1,468	\$16,615,111	741	\$10,632,790	414	\$3,187,600	166	\$1,197,354	136	\$1,142,178	11	\$455,189	\$2,924,624
WESTERN HEMISPHERE													
Total	257	3,898,070	183	3,132,532	25	164,401	35	202,809	7	80,970	7	317,358	—
Canada	94	1,779,745	66	1,409,386	20	130,102	—	—	3	28,460	5	211,797	—
Argentina	28	278,199	20	230,014	—	—	7	36,685	1	11,500	—	—	—
Brazil	39	304,820	33	266,686	2	15,122	3	7,500	1	15,512	—	—	—
Peru	21	332,259	14	286,302	—	—	7	45,957	—	—	—	—	—
Other Latin America	75	1,203,047	50	940,144	3	19,177	18	112,667	2	25,498	2	105,561	—
EUROPE													
Total	812	8,530,918	304	4,501,160	347	2,700,106	90	664,714	67	527,107	4	137,831	315,362
Belgium	21	196,390	11	125,179	3	15,454	5	32,614	2	23,143	—	—	—
Denmark	28	264,592	15	131,749	8	89,772	4	37,071	1	6,000	—	—	—
France	70	853,849	37	609,911	22	167,255	6	41,856	5	34,827	—	—	—
Italy	64	655,520	36	430,849	14	120,295	8	60,506	6	43,870	—	—	—
Netherlands	31	321,967	13	149,776	13	116,289	4	37,791	—	—	1	18,111	—
Norway	23	246,285	12	152,985	1	9,439	9	71,162	1	12,699	—	—	—
Sweden	103	1,446,307	42	886,241	51	365,922	4	38,252	3	36,172	3	119,720	—
Switzerland	39	639,429	12	450,200	21	151,406	2	11,564	4	26,259	—	—	—
United Kingdom	274	2,659,321	65	1,053,072	178	1,373,971	5	42,934	26	189,344	—	—	92,500
West Germany	59	449,095	8	50,505	31	251,840	11	66,387	9	80,363	—	—	—
Other	100	798,163	53	460,693	5	38,463	32	224,577	10	74,430	—	—	222,862

Continued

NIH FOREIGN GRANTS AND AWARDS*, FY 1966 (Cont)

Country	Total awards †		Research grants & contracts		U S fellows & trainees abroad		International research fellows		Visiting scientists		Training grants		Foreign currency program ‡
	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	
AFRICA													
Total	33	\$ 487,603	21	\$ 395,377	5	\$ 34,338	6	\$ 54,953	1	\$ 2,935	-	-	-
So. Africa, Republic of	20	308,649	15	270,348	1	5,100	4	33,201	-	-	-	-	-
Other	13	178,954	6	125,029	4	29,238	2	21,752	1	2,935	-	-	-
MIDDLE EAST													
Total	82	1,084,858	56	878,589	7	54,215	10	68,045	9	84,009	-	-	1,315,453
Israel	68	871,356	44	693,141	6	42,291	10	68,045	8	67,879	-	-	1,008,243
Other	14	213,502	12	185,448	1	11,924	-	-	1	16,130	-	-	307,210
SOUTH ASIA AND FAR EAST													
Total	284	2,613,662	177	1,725,132	30	234,540	25	206,833	52	447,157	-	-	1,293,809
Australia	64	733,384	40	540,471	14	106,063	4	38,767	6	48,083	-	-	-
Japan	150	1,293,480	98	861,207	12	88,312	8	70,003	32	273,958	-	-	-
Other	70	586,798	39	323,454	4	40,165	13	98,063	14	125,116	-	-	1,293,809

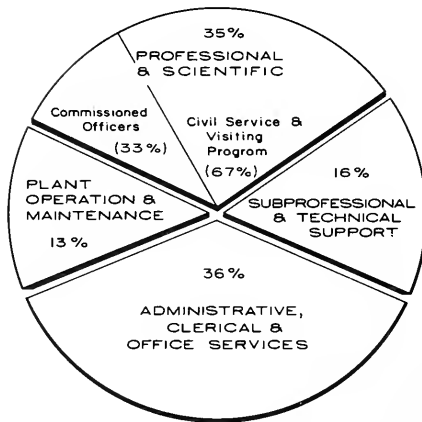
* Awards to international organizations are shown under the country where the organization is located, as follows:

Country	International organization	Research grants		Training grants	
Guatemala	(Institute of Nutrition of Central America and Panama)	4	\$167,751	1	\$58,860
France	(International Brain Research Association)	2	39,880		
Switzerland	(World Health Organization)	3	336,034		
"	(International Union Against Cancer)	1	50,000		
United Kingdom	(Federal Dentair Internationale)	1	13,145		

† Does not include 6 grants to domestic institutions, totalling \$2,422,671, for international centers for medical research and training.

‡ Not included in "Total awards" column.

TOTAL NIH STAFF
11,466 Scientists and Supportive Workers



NIH EMPLOYMENT BY OCCUPATIONAL GROUPING
October 1, 1966

Total NIH		11,466*
Professional and scientific		4,020
Administration	72	
Direct research and services	3,159	
DRG	126	
Other extramural activities	663	
Sub-professional and technical support		1,785
Administrative, clerical and office services		4,123
Plant operation and maintenance		1,514

*Includes 24 youth trainees not shown in occupational groups.

NIH EMPLOYMENT BY PROGRAM AND PAY SYSTEM
October 1, 1966

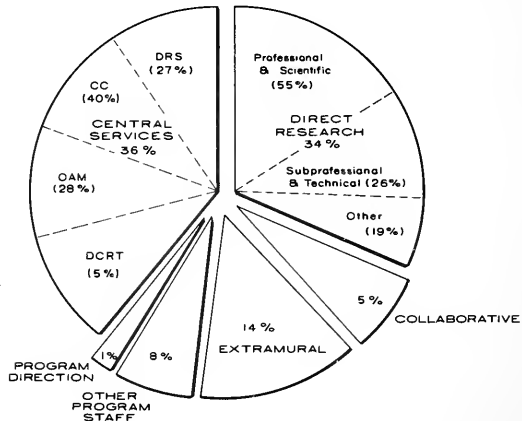
Organization	Full-time employees							Part-time and intermittent		
	Full-time total	Civil Service*				Comm. corps	Visiting program	Part-time total	Civil Service	
		GS†	208g	WB	Staff fellows				GS, WB	Cons., Adv.
Total	11,466	8,037	92	1,828	73	1,329	107	1,177	387	790
OD	201	168	5	—	—	28	—	104	16	88
OAM	1,202	833	1	366	—	2	—	14	14	—
NCI	1,331	1,014	17	64	9	214	13	111	10	101
NHI	623	435	7	18	9	131	23	54	25	29
NIAID	695	499	5	73	6	105	7	56	3	53
NIAMD	621	437	11	8	17	117	31	67	18	49
NICHD	330	254	4	7	7	58	—	97	18	79
NIDR	279	193	2	12	3	64	5	48	11	37
NIGMS	187	163	2	—	3	17	2	21	3	18
NIMH	1,157	863	17	15	11	239	12	215	92	123
NINDB	711	571	12	30	7	83	8	113	32	81
CC	1,668	986	1	531	—	145	5	108	108	—
DBS	281	217	1	30	1	31	1	10	2	8
DCRT	239	218	1	—	—	20	—	2	1	1
DRFR	138	126	1	—	—	11	—	24	4	20
DRG	579	558	4	—	—	17	—	106	20	86
DRMP	61	53	1	—	—	7	—	16	1	15
DRS	1,163	449	—	674	—	40	—	11	9	2

*Includes 2,584 professional and scientific employees. †Includes 24 youth trainees and 2 unclassified employees.

NIH EMPLOYMENT BY PROGRAM, 1962-1966

Institute, Division or Office	Full-time					Part-time				
	7/1/62	7/1/63	7/1/64	7/1/65	7/1/66	7/1/62	7/1/63	7/1/64	7/1/65	7/1/66
Total NIH	9,984	10,463	10,656	11,170	11,719	855	973	939	1,040	1,087
OD	1,211	1,337	1,445	1,403	1,457	24	50	56	103	122
Allergy	663	678	668	706	720	29	48	30	35	49
Arthritis	587	592	579	576	620	87	96	95	50	71
Cancer	1,263	1,218	1,199	1,279	1,338	80	117	69	81	102
Child Health	-	35	92	167	331	-	13	54	83	89
Dental	244	254	254	305	303	39	41	40	37	47
General	143	125	138	151	178	19	17	13	18	20
Heart	631	690	690	735	648	73	77	62	62	50
Mental	985	1,025	1,057	1,151	1,231	208	259	245	264	238
Neurology	630	714	674	764	780	109	62	76	106	107
Clinical Center	1,618	1,686	1,713	1,673	1,628	102	101	115	105	114
Biologics Standards	231	232	245	267	299	14	15	17	23	10
Computer Res. & Tech.	-	-	-	-	220	-	-	-	-	2
Res. Facilities & Resources	-	94	110	125	135	-	18	21	24	26
Research Grants	549	521	521	556	584	43	27	28	31	17
Regional Med. Prog.	-	-	-	-	46	-	-	-	-	16
Research Services	1,229	1,262	1,271	1,312	1,201	28	32	18	18	7

FUNCTIONAL DISTRIBUTION OF NIH PERSONNEL
11,466 Full-Time Commissioned Officers, Civil Service Employees, and Visiting Scientists



FUNCTIONAL DISTRIBUTION OF NIH PERSONNEL

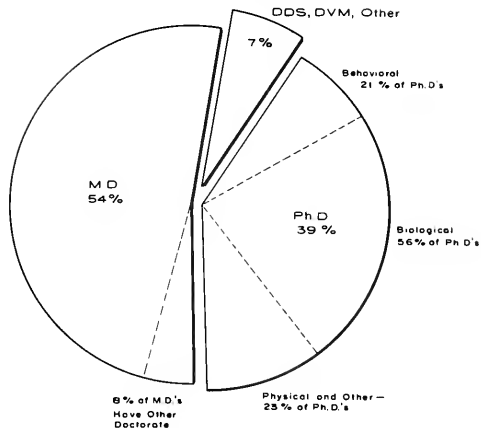
October 1, 1966

Total staff 11,466*

Direct research	3,908	Central services	4,173
Professional and scientific	2,147	Division of Research Services	1,139
Sub-professional and technical	1,009	Professional and scientific	158
Other	752	Other	981
		Clinical Center	1,648
Collaborative studies	583	Professional and scientific	568
Professional and scientific	239	Other	1,080
Other	344	Office of Administrative Management	1,180
Extramural research	1,656	Professional and scientific	6
Professional and scientific	550	Other	1,174
Other	1,106	Division of Computer Research and Technology	206
		Professional and scientific	43
		Other	163
		Program direction (OD-NIH)	201
		Professional and scientific	63
		Other	138
		Other program staff	945
		Professional and scientific	246
		Other	699

* Includes full-time civil service employees, commissioned officers, youth trainee program, and visiting programs at Bethesda and in the field.

PROFESSIONAL STAFF
2140 Professionals with Doctor's Degrees



NIH PROFESSIONAL STAFF WITH DOCTORAL DEGREES, BY TYPE OF DOCTORATE AND DISCIPLINE
October 1, 1966

Degree	No. of doctors	Distribution of Ph.D.'s			
Total NIH*	2,140	Biological	478	Behavioral	174
M.D.	1,150	Biochemistry	157	Psychology	140
(M.D.'s with other doctorate)	(87)	Physiology	57	Social sciences	34
Ph.D.	848	Bacteriology	45		
Biological	478	Zoology	39	Physical	147
Behavioral	174	Microbiology	42	Chemistry	135
Physical	147	Biology	40	Physics	12
Other	49	Pharmacology	31		
		Entomology	14	Other	49
D.D.S.	47	Parasitology	13	Statistics	14
D.V.M.	47	Biophysics	12	Mathematics	4
D.Sc.	29	Genetics	9	Miscellaneous	31
D.Ed.	4	Cytology	2		
D.Pharm.	5	Embryology	2		
D.S.W.	2	Immunology	1		
D.N.Sc.	1	Nutrition	3		
D.O.	2	Virology	2		
D.Pod.	1	Botany	9		
D.P.H.	2				
Eng.D.	1				
O.D.	1				

* Includes full-time civil service employees, commissioned officers, and visiting program at Bethesda and in the field.

CHRONOLOGY OF IMPORTANT DATES IN THE DEVELOPMENT OF NIH PROGRAMS

- 1887 Research laboratory founded at Marine Hospital, Staten Island, N.Y., to meet new responsibilities of Marine Hospital Service.
- 1891 Hygienic Laboratory moves from Staten Island to Service headquarters, Washington, D.C.
- 1902 Advisory Board for the Hygienic Laboratory established; later to become National Advisory Health Council. Act of Congress makes Service responsible for biologics control.
- 1912 Name of Public Health & Marine Hospital Service changed to Public Health Service.
- 1930 Hygienic Laboratory becomes National Institute of Health.
- 1937 Congress authorizes National Cancer Institute. First research grants.
- 1938 National Institute of Health moves to land donated by Mr. and Mrs. Luke I. Wilson at Bethesda, Md. First research fellowships (NCI).

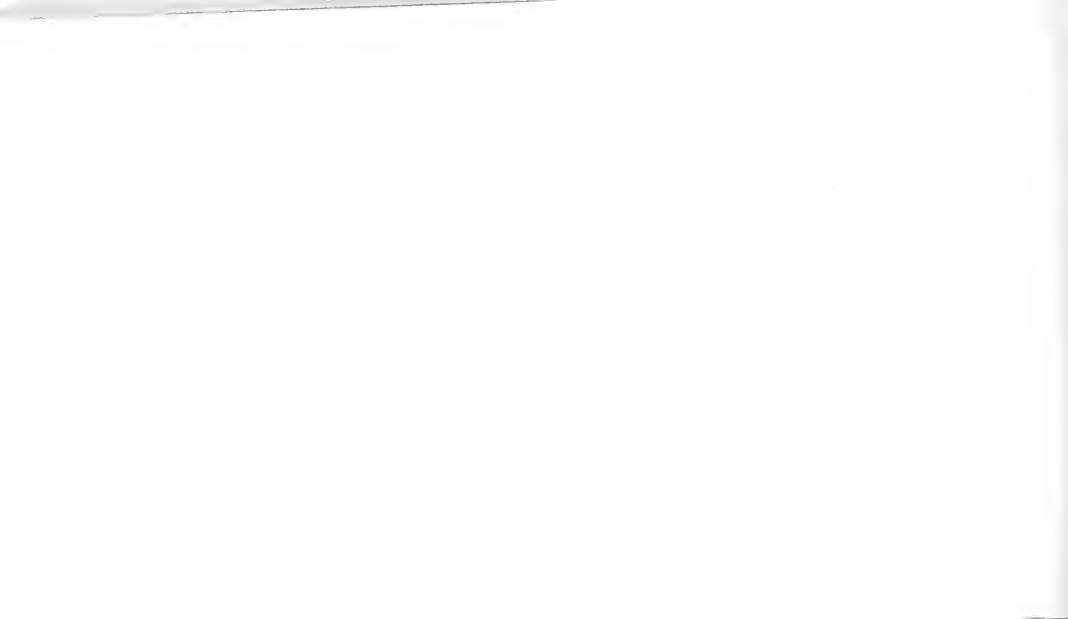
- 1944 Public Health Service Act, giving general research authority.
- 1945 Research grants extended, with central NIH responsibility.
- 1946 Congress passes Mental Health Act.
- 1947 Division of Research Grants established to process NIH grants and fellowships to non-Federal institutions and scientists. First training grants (NCI).
- 1948 National Heart Institute authorized; other laboratories regrouped to form Microbiological Institute, Experimental Biology & Medicine Institute, and National Institute of Dental Research. NIH becomes National *Institutes* of Health.
- 1949 Mental hygiene program of Public Health Service transferred to NIH and expanded to become National Institute of Mental Health.
- 1950 "Omnibus Act." National Institute of Neurological Diseases & Blindness and National Institute of Arthritis & Metabolic Diseases established, the latter absorbing Experimental Biology & Medicine Institute.

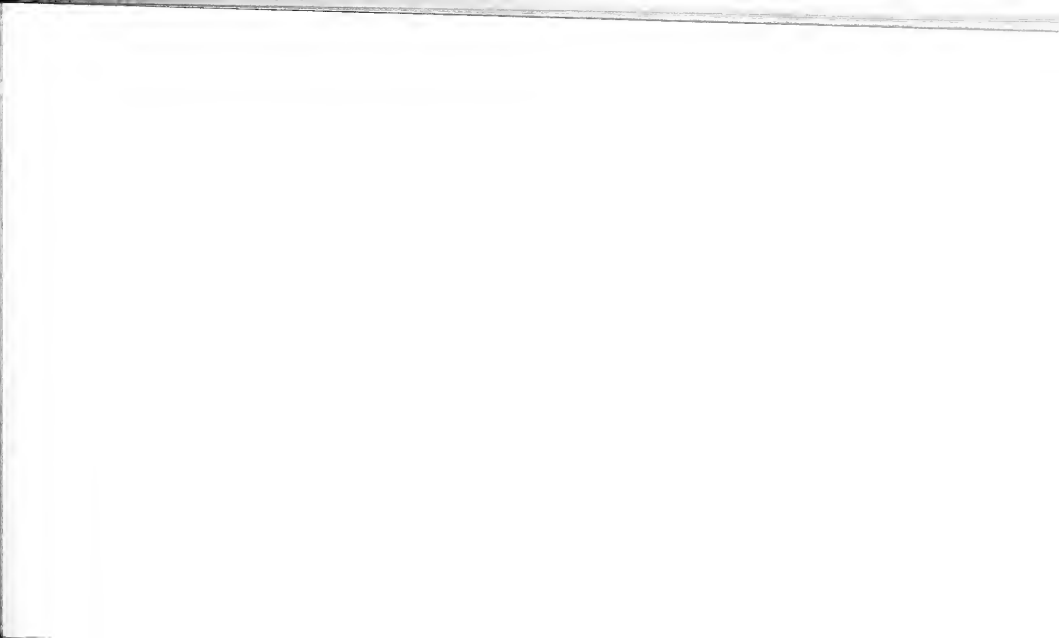
- 1953 Public Health Service becomes a constituent of newly created Department of Health, Education, & Welfare. Clinical Center opens.
- 1955 National Microbiological Institute becomes National Institute of Allergy & Infectious Diseases. Division of Biologics Standards formed, assuming NMI's biologics control function. Division of Research Services established.
- 1956 Health Research Facilities Act, establishing program of matching grants for research construction in non-Federal institutions.
- 1958 Division of General Medical Sciences created.
- 1959 Office of Administrative Management formed, consolidating managerial activities.
- 1960 Public Health Service Act amended to provide for general support of research and research training programs in nonprofit institutions. International Health Research Act; NIH extends international programs.

- 1962** Division of Research Facilities & Resources created. Two Institutes authorized — National Institute of General Medical Sciences (to supersede DGMS) and National Institute of Child Health & Human Development.
- 1963** Two new Institutes — NIGMS and NICHD — established. Mental Retardation Facilities and Community Mental Health Centers Construction Act expands programs of DRFR, NICHD and NIMH.
- 1964** Division of Computer Research and Technology authorized.
- 1965** Division of Regional Medical Programs created to administer the "Heart Disease, Cancer, and Stroke Amendments of 1965."
- 1967** Division of Environmental Health Sciences established. National Institute of Mental Health becomes separate bureau of PHS.











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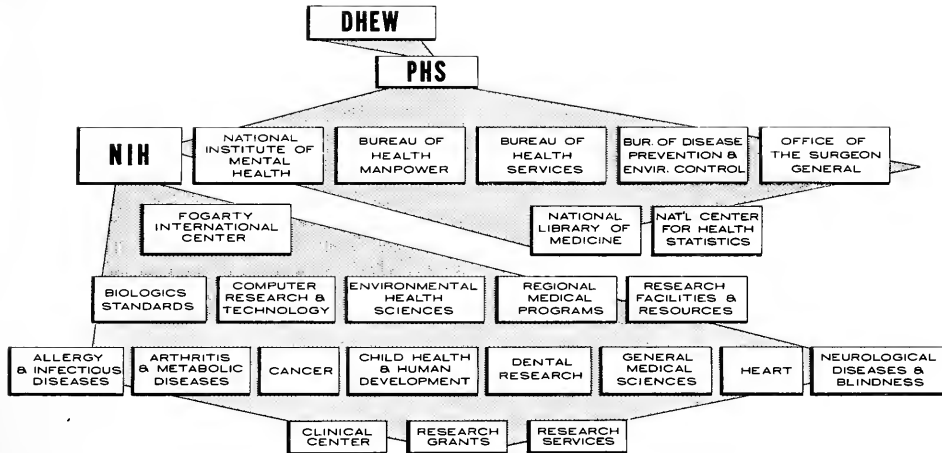
NATIONAL
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and the
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NATIONAL INSTITUTES OF HEALTH

March 1968



This chart and the following data represent NIH prior to its expansion in April 1968

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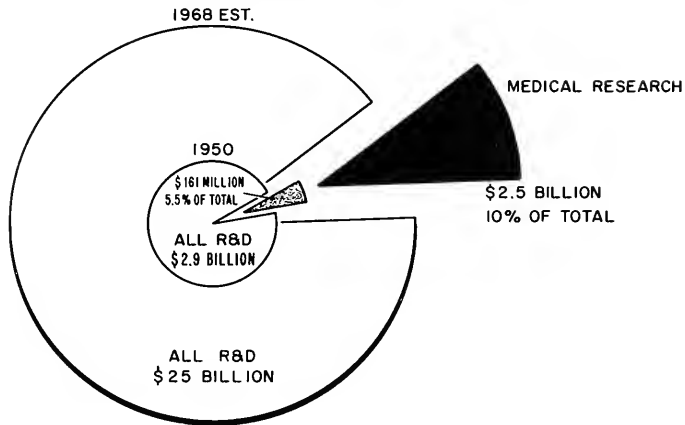
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MEDICAL RESEARCH AS A
PROPORTION OF ALL RESEARCH AND DEVELOPMENT
1950-1968



SOURCES OF MEDICAL RESEARCH FUNDS 1948-1968

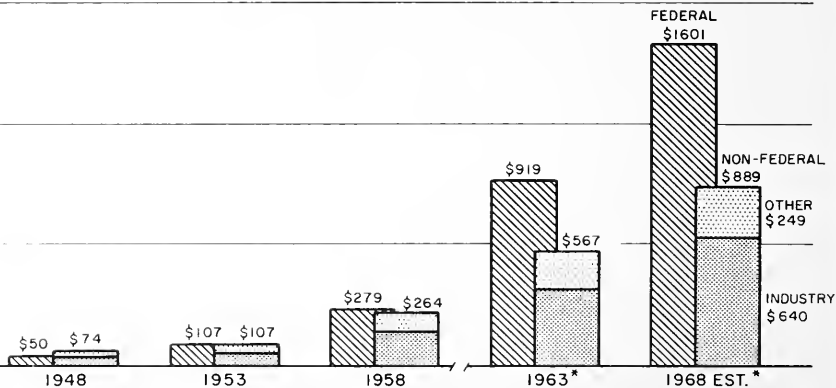
MILLIONS

\$1800

1200

600

0



*NON-FEDERAL DATA ARE NOT STRICTLY COMPARABLE WITH THOSE FOR PRIOR YEARS, AS COVERAGE HAS BEEN IMPROVED

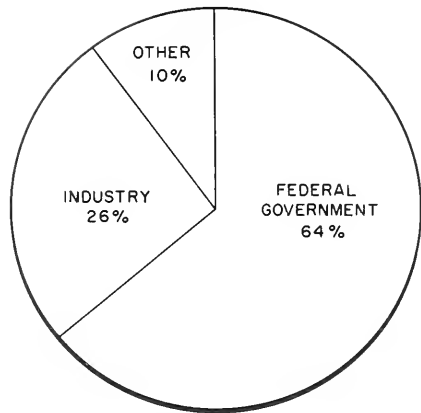
NATIONAL SUPPORT FOR MEDICAL RESEARCH, 1948 - 1968*
(Obligations in millions)

Source of funds	1948	1953	1958	1963	1964	1965	1966	1967 est.	1968 est.
Total	124	214	543	1,486	1,652	1,841	2,057	2,280	2,490
Government	50	108	292	964	1,099	1,229	1,377	1,523	1,670
Federal	50	107	279	919	1,049	1,174	1,316	1,458	1,601
State and local	n.a.	1	13	45	50	55	61	65	69
Industry	43	58	170	375	400	450	511	580	640
Private support	31	48	81	147	153	162	169	177	180
Foundations and health agencies	19	26	45	85	88	92	94	100	101
Other private contributors	n.a.	n.a.	6	21	22	25	28	29	30
Endowment	12	15	19	19	19	19	19	19	19
Institutions' own funds	n.a.	7	11	22	24	26	28	29	30

covers only medical and health-related research; such activities as research training and construction are not included.
Beginning with 1962, data for non-Federal components have been improved and are not strictly comparable with those for prior years.

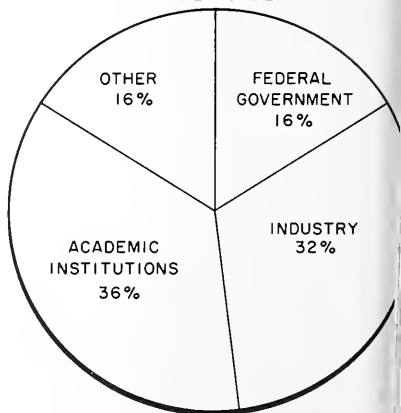
FUNDS OBLIGATED FOR MEDICAL AND HEALTH-RELATED RESEARCH
U. S. - 1968 Est.

BY SOURCE



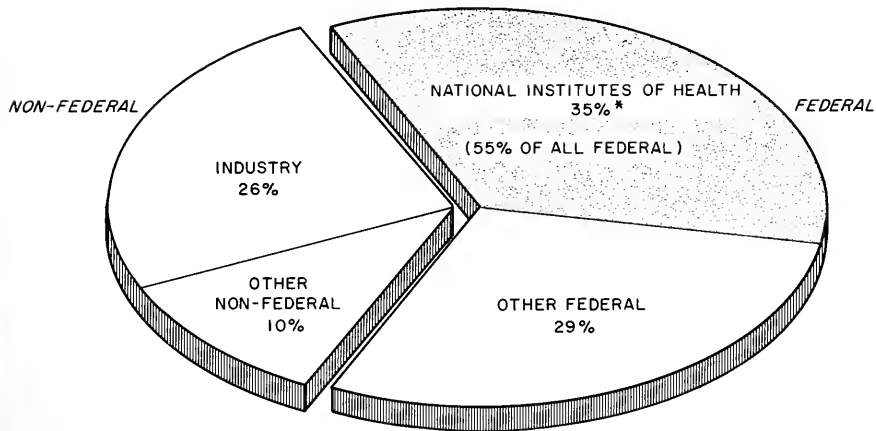
\$2.5 BILLION

BY PERFORMER



\$2.5 BILLION

NIH FUNDS AS A PROPORTION OF NATION'S MEDICAL RESEARCH SUPPORT



1968 EST.

*EXCLUDES NATIONAL INSTITUTE OF MENTAL HEALTH (5%)

FEDERAL SUPPORT FOR MEDICAL RESEARCH, FY 1948 - 1968*
(Dollars in millions)

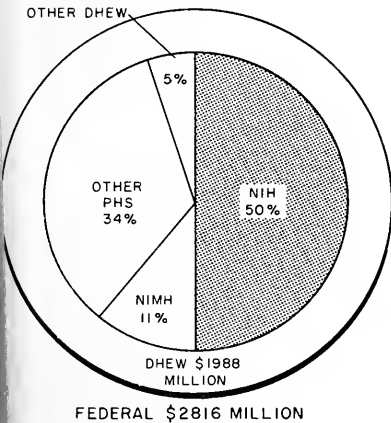
	1948		1953		1958		1963		1965		1966		1967		1968 est.	
	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent
Total	50	100.0	107	100.0	279	100.0	919	100.0	1,174	100.0	1,316	100.0	1,458	100.0	1,601	100.0
AEC	13	26.0	26	24.3	37	13.3	75	8.2	85	7.2	90	6.8	96	6.6	97	6.1
Agriculture	3	6.0	6	5.6	14	5.0	23	2.5	40	3.4	45	3.4	46	3.2	46	2.9
Defense	8	16.0	23	21.5	31	11.1	88	9.6	101	8.6	119	9.0	117	8.0	114	7.1
DHEW	22	44.0	47	43.9	183	65.6	642	69.9	826	70.4	925	70.3	1,050	72.0	1,166	72.8
NIH	(17)	(34.0)	(38)	(35.5)	(160)	(57.3)	(566)	(61.6)	(715)	(60.9)	(791)	(60.1)	(803) [†]	(55.1)	(873) [†]	(54.5)
FAA	-	-	-	-	-	-	3	0.3	3	0.3	3	0.2	2	0.1	3	0.2
NASA	-	-	-	-	-	-	34	3.7	60	5.1	75	5.7	82	5.6	108	6.7
NSF	-	-	-	-	4	1.4	21	2.3	20	1.7	14	1.1	14	1.0	13	0.8
VA	3	6.0	5	4.7	10	3.6	30	3.3	37	3.2	41	3.1	45	3.1	47	2.9
Other	1	2.0	-	-	-	-	3	0.3	2	0.2	4	0.3	6	0.4	7	0.4

*Covers only medical and health-related research; such activities as research training and construction are not included.

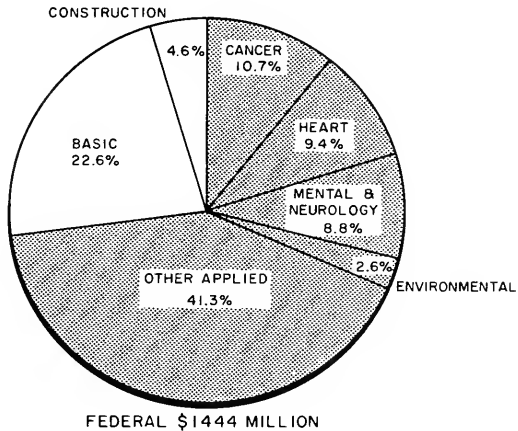
[†]Excludes National Institute of Mental Health and includes Division of Environmental Health Sciences.

FEDERAL EXPENDITURES FOR MEDICAL AND HEALTH RELATED ACTIVITIES—FY 1968 Est.

HEALTH RESOURCES



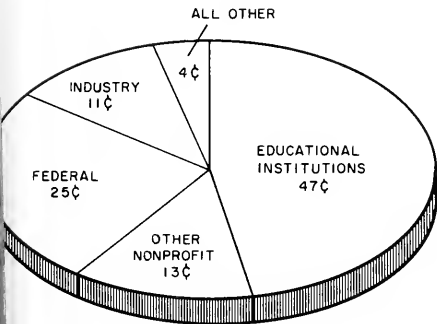
HEALTH RESEARCH



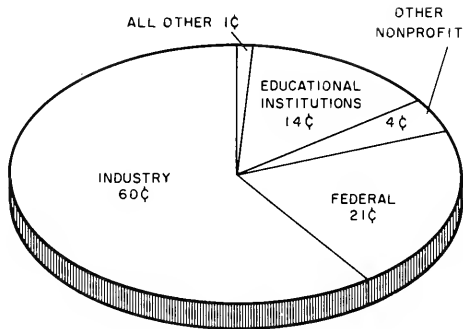
FEDERAL EXPENDITURES AND LOANS FOR MEDICAL AND HEALTH-RELATED ACTIVITIES BY AGENCY, FY 1968
(Dollars in millions)

Agency	Total	Development of health resources				Hospital services	Prevention and control
		Health research	Training	Construction	Organization and delivery		
Total	\$13,879	\$1,444	\$732	\$481	\$159	\$10,382	\$682
DHEW	9,593	1,056	540	248	144	7,215	390
NIH	1,002	811	165	-	24	-	2
Other PHS	1,323	201	339	244	109	142	289
Social Security	5,064	-	-	-	-	5,064	-
Other DHEW	2,203	44	36	5	11	2,009	99
Department of Defense	1,704	87	91	26	-	1,480	20
Veterans Administration	1,442	48	60	58	2	1,274	-
Department of State	164	1	14	1	10	5	134
Department of Agriculture	153	37	-	-	-	-	116
Office of Economic Opportunity	111	-	-	-	-	111	-
Atomic Energy Commission	100	99	1	-	-	-	-
Other agencies	415	116	26	148	3	100	22
Contributions to employee health benefit funds	197	-	-	-	-	197	-

FEDERAL R & D DOLLAR DISTRIBUTED BY PERFORMER, 1968



MEDICAL AND HEALTH-RELATED
(\$1.5 BILLION)



ALL FEDERAL RESEARCH & DEVELOPMENT*
(\$16.3 BILLION)

THE RESEARCH CENTERS ADMINISTERED BY INDUSTRIAL FIRMS, UNIVERSITIES, AND OTHER NONPROFIT INSTITUTIONS ARE ATTACHED TO THE APPROPRIATE SECTOR.

FEDERAL AND NIH OBLIGATIONS FOR RESEARCH AND DEVELOPMENT BY PERFORMER, FY 1966
(In thousands)

Performer	Federal				NIH*			
	Total research & development	Research		Development	Total research & development	Research		Development
		Total	Basic			Total	Basic	
Total	\$15,304,052	\$5,270,840	\$1,843,865	\$10,033,212	\$701,043	\$701,043	\$269,902	—
United States and Territories	15,246,959	5,226,510	1,821,775	10,020,449	688,368	688,368	266,064	—
Federal Government	3,396,657	1,493,337	448,671	1,903,320	117,607	117,607	44,137	—
Profit organizations, excluding research centers	8,881,346	1,667,131	294,631	7,214,215	32,763	32,763	—	—
Research centers	359,790	71,959	30,090	287,831	—	—	—	—
Educational institutions, excluding research centers	1,326,724	1,251,398	727,041	75,326	413,760	413,760	170,678	—
Research centers	640,189	398,496	213,349	241,693	—	—	—	—
Nonprofit institutions, excluding educational institutions and research centers	395,924	242,464	89,760	153,460	119,206	119,206	49,217	—
Research centers	170,296	35,663	4,345	134,633	—	—	—	—
Other performers	76,033	66,062	13,888	9,971	5,032	5,032	2,032	—
Foreign	57,093	44,330	22,090	12,763	12,675	12,675	3,838	—

*Excludes National Institute of Mental Health; includes Division of Environmental Health Sciences.

FEDERAL AND NIH OBLIGATIONS FOR RESEARCH BY FIELD OF SCIENCE, FY 1966
(In thousands)

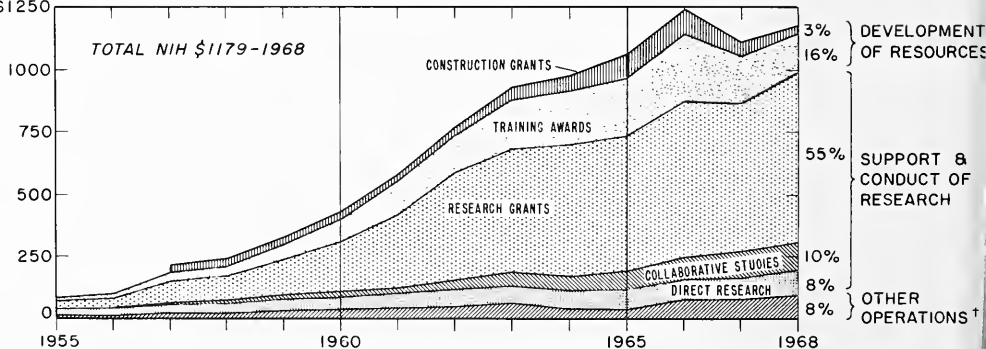
Field of science	Federal			NIH*			
	Total	Basic	Applied	Total	Percent of Federal	Basic	Applied
Total	\$5,270,840	\$1,843,865	\$3,426,975	\$701,043	13.3	\$269,902	\$431,141
Life sciences	1,289,831	540,385	749,446	635,163	49.2	232,249	402,914
Biological sciences	369,579	290,278	79,301	104,840	28.4	104,840	—
Medical sciences	811,484	208,682	602,802	530,323	65.4	127,409	402,914
Agriculture	108,768	41,425	67,343	—	0.0	—	—
Psychological sciences	100,331	53,373	46,958	11,096	11.1	9,631	1,465
Biological psychology	43,421	31,850	11,571	6,532	15.0	5,659	873
Social psychology	56,910	21,523	35,387	4,564	8.0	3,972	592
Physical sciences	3,641,474	1,201,656	2,439,818	49,927	1.4	26,020	23,907
Chemistry	257,690	118,586	139,104	28,145	10.9	14,536	13,609
Mathematics	122,598	60,377	62,221	3,947	3.2	1,425	2,522
Other	3,261,186	1,022,693	2,238,493	17,835	0.5	10,059	7,776
Social sciences	165,615	44,296	121,319	2,574	1.6	2,002	572
Anthropology	11,250	9,338	1,912	16	0.1	15	1
Sociology	50,212	9,088	41,124	1,416	2.8	1,035	381
Economics	60,005	16,234	43,771	—	0.0	—	—
Other social sciences	44,148	9,636	34,512	1,142	2.6	952	190
Other sciences	73,589	4,155	69,434	2,283	3.1	—	2,283

*Excludes National Institute of Mental Health; includes Division of Environmental Health Sciences.

NIH—GROWTH AND FUNCTIONS*

1955-1968

MILLIONS
\$1250



* THROUGH 1966, INCLUDES NATIONAL INSTITUTE OF MENTAL HEALTH, WHICH BECAME A SEPARATE BUREAU OF PHS IN 1967. EXCLUDES DIRECT CONSTRUCTION † STATE CONTROL PROGRAMS, BIOLOGICS CONTROL, PROFESSIONAL & TECHNICAL ASSISTANCE, REGIONAL MEDICAL PROGRAMS, DIRECT TRAINING, REVIEW AND APPROVAL, PROGRAM DIRECTION.

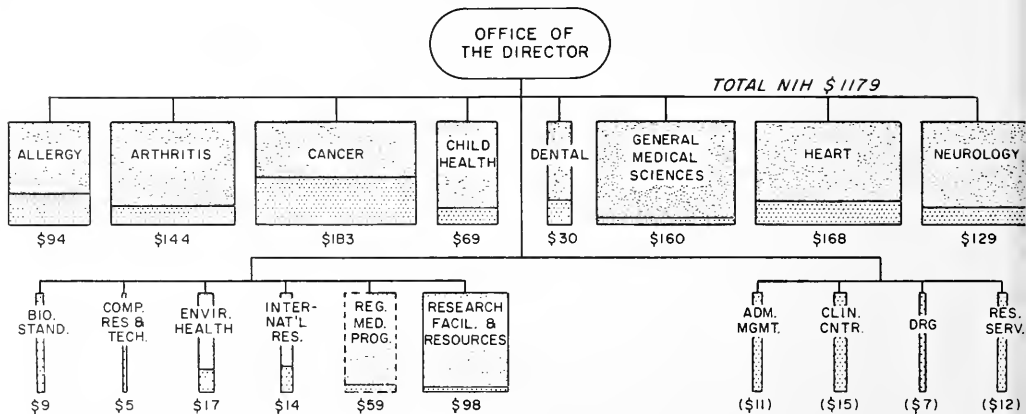
CONSOLIDATED NIH APPROPRIATIONS, FY 1946-1968*
(Dollars in thousands)

Activity	1946	1950	1955	1957	1960	1962	1964	1966	1967		1968
									Incl. Mental, excl. Envir.	Incl. Envir., excl. Mental	
Total †	\$3,020	\$52,146	\$81,268	\$213,007	\$430,000	\$771,585	\$974,454	\$1,244,406	\$1,412,983	\$1,111,888	1,178,924
Grants	850	30,979	54,331	133,544	304,430	598,998	758,569	920,853	1,049,337	826,471	890,186
Research grants	780	14,066	33,918	89,797	202,948	433,662	529,231	604,377	681,197	598,139	642,489
Regional medical programs	—	—	—	—	—	—	—	24,000	43,000	43,000	53,900
Fellowships	45	1,448	2,562	5,397	14,570	29,080	45,786	56,330	60,123	50,990	54,991
Training grants	25	6,415	11,051	28,075	75,037	118,506	172,602	209,896	224,486	134,342	138,806
Mental health staffing	—	—	—	—	—	—	—	19,500	33,781	—	—
State control programs	—	9,050	6,800	10,275	11,875	17,750	10,950	6,750	6,750	—	—
Direct operations	2,170	15,392	26,937	49,463	95,570	137,587	159,885	217,553	257,646	229,417	253,738
Direct research	2,100	11,300	22,934	34,142	49,885	69,674	71,138	82,728	90,479	78,647	81,165
Biometry and epidemiology ‡	—	—	—	—	—	—	—	—	—	—	9,923
Collaborative studies §	—	—	—	4,668	22,142	35,857	58,060	91,460	113,445	109,726	113,037
Biologics standards	—	—	454	1,692	2,805	3,050	4,787	6,806	7,904	7,904	8,649
Prof. & tech. assistance	—	2,538	1,850	5,137	11,558	11,953	3,998	5,637	7,570	885	2,968
Training	—	171	50	251	335	475	1,465	2,107	2,319	578	1,129
Review & approval	30	803	1,049	2,789	7,076	12,799	15,171	17,330	19,903	16,448	19,433
Program direction	40	580	600	784	1,769	3,779	4,193	7,555	8,986	8,189	8,887
International research	—	—	—	—	—	—	1,073	1,213	3,209	3,209	3,872
Computer research and tech.	—	—	—	—	—	—	—	2,717	3,831	3,831	4,675
Construction grants	—	5,775	—	30,000	30,000	35,000	56,000	106,000	106,000	56,000	35,000

* Data represent appropriations, not funds obligated. † Does not include direct construction or special foreign currency program. ‡ New budget category in FY 1968.

§ Data for years prior to 1962 represent chemotherapy contracts only. || Includes \$500,000 for planning the construction of an international center.

NIH ORGANIZATION AND FUNCTIONS, 1968 (APPROPRIATIONS IN MILLIONS OF DOLLARS *)



*SERVICE AND ADMINISTRATIVE ACTIVITIES ARE FINANCED BY REIMBURSEMENT.

□ GRANTS ▨ DIRECT OPERATION

NIH APPROPRIATIONS, FY 1968
(In thousands)

Activity	Total	General research & serv.	Allergy	Arthritis	Cancer	Child health	Dental	Envir. health sciences	General medical sciences	Heart	Neurology	Biologics standards	Health research facilities	Regional medical programs
Total*	\$1,178,924	\$81,141	\$94,422	\$143,954	\$183,356	\$68,621	\$30,307	\$17,289	\$160,284	\$167,954	\$128,633	\$8,649	\$35,000	\$58,814
Grants	890,186	68,262	66,454	118,601	98,993	56,795	23,349	13,166	151,902	131,763	107,001	-	-	53,900
Research grants	642,489	66,364	52,936	96,304	83,317	42,931	15,909	8,421	85,263	106,628	84,416	-	-	-
Regional medical programs	53,900	-	-	-	-	-	-	-	-	-	-	-	-	53,900
Research fellowships	54,991	1,580	4,267	6,591	4,326	4,102	1,971	-	20,910	7,439	3,805	-	-	-
Training grants	138,806	318	9,251	15,706	11,350	9,762	5,469	4,745	45,729	17,696	18,780	-	-	-
Direct operations	253,738	12,879	27,968	25,353	84,363	11,826	6,958	4,123	8,382	36,191	21,632	8,649	-	4,914
Direct research	81,165	-	13,746	14,333	16,065	5,742	4,598	3,549	-	13,135	9,997	-	-	-
Biometry & epidemiology	9,923	-	1,356	751	1,410	1,939	435	-	-	1,727	2,305	-	-	-
Collaborative studies	113,037	1,991	11,025	7,736	62,985	1,387	860	-	3,547	17,526	5,980	-	-	-
Biologics standards	8,649	-	-	-	-	-	-	-	-	-	-	8,649	-	-
Training	1,129	187	-	-	-	91	-	-	484	295	72	-	-	-
Prof. & tech. assist.	2,968	-	-	-	-	-	-	-	-	-	-	-	-	2,968
Review & approval	19,433	1,511	1,482	2,157	2,588	1,786	662	356	3,023	2,663	2,389	-	-	816
Program direction	8,887	1,143	359	376	1,315	881	403	218	1,328	845	889	-	-	1,130
International research†	3,872	3,372	-	-	-	-	-	-	-	-	-	-	-	-
Computer res. & tech.	4,675	4,675	-	-	-	-	-	-	-	-	-	-	-	-
Construction grants	35,000	-	-	-	-	-	-	-	-	-	-	-	35,000	-

Data represent appropriations, not estimated obligations; see NIH Funds Available for Obligation, FY 1968. Does not include direct construction or the special foreign currency program.

Total includes \$500,000 planning grant for construction of an international center, though separate column is not shown.

NIH FUNDS AVAILABLE FOR OBLIGATION, FY 1968
(In thousands)

Activity	Total	Gen. res. & services	Allergy	Arthritis	Cancer	Child health	Dental	Gen. med. sciences	Heart	Regional med. program	Envir. health	Neurology
Total*	\$1,122,918 [†]	\$79,335	\$93,502	\$142,344	\$181,714	\$68,035	\$29,921	\$159,046	\$165,748	\$27,886	\$17,024	\$126,552
Grants	842,577	66,656	65,782	117,074	97,332	56,311	23,057	150,693	130,235	23,000	12,506	99,931
Research	626,630	64,758	52,264	94,777	81,656	42,447	15,617	84,054	105,100	—	8,611	77,346
Fellowships	55,091	1,580	4,267	6,591	4,326	4,102	1,971	20,910	7,439	—	100	3,805
Training	137,856	318	9,251	15,706	11,350	9,762	5,469	45,729	17,696	—	3,795	18,780
Regional medical	23,000	—	—	—	—	—	—	—	—	23,000 [‡]	—	—
Direct operations	257,549	12,679	27,720	25,270	84,382	11,724	6,864	8,353	35,513	4,886	4,518	26,621
Lab. & clinical res.	81,631	—	14,852	14,352	16,032	5,098	4,541	—	13,113	—	3,749	9,894
Collab. res. & devl.	116,900	1,974	11,023	7,587	63,077	1,530	841	3,540	17,138	—	—	10,191
Biometry & epidemiology	9,718	—	—	713	1,415	2,040	432	—	1,747	—	—	3,371
Biologics standards	8,519	—	—	—	—	—	—	430	222	—	—	71
Training	1,001	187	—	—	—	89	—	—	—	2,958	—	—
Prof. & tech. assistance	2,958	—	—	—	—	—	—	—	—	712	420	2,411
Review & approval	19,450	1,506	1,479	2,247	2,542	1,954	647	3,030	2,495	1,216	349	67
Program direction	9,014	1,154	366	371	1,316	1,013	403	1,353	798	—	—	—
Computer res. & tech.	4,555	4,555	—	—	—	—	—	—	—	—	—	—
International research	3,803 [§]	3,303	—	—	—	—	—	—	—	—	—	—
Construction	22,792	—	—	—	—	—	—	—	—	—	—	—
Reserves & transfers	(56,006) [¶]	(1,806)	(920)	(1,610)	(1,642)	(586)	(386)	(1,238)	(2,206)	(30,928)	(265)	(2,081)

*Excludes direct construction, special foreign currency program, transfers to other accounts, and administrative reserves (the latter two are shown separately below).

†Contains biologics standards and health research facilities, though separate columns are not shown. ‡Excludes \$25.9 million unobligated balance available at start of year. §Total includes \$500,000 for planning the construction of an international center, though separate column is not shown. ||Excludes \$15.0 million unobligated balance available at start of year. ¶Includes \$130 thousand and \$12,208 thousand in reserves for biologics standards and health research facilities, respectively.

ESTIMATED DISTRIBUTION OF NIH RESEARCH GRANTS BY PROGRAM, FY 1968
1968 Column of the 1969 President's Budget
(In thousands)

Type of grant	Total	Gen. res. & services *	Allergy	Arthritis	Cancer	Child health	Dental	Gen. med sciences	Heart	Neurology	Envir. health
Total	\$626,630	\$64,758	\$52,264	\$94,777	\$81,656	\$42,447	\$15,617	\$84,054	\$105,100	\$77,346	\$8,611
Regular programs	468,617	4,101	45,445	83,706	60,516	37,583	10,919	70,128	86,008	65,147	5,064
Noncompeting projects	326,964	2,493	31,844	57,214	43,040	26,225	8,581	49,883	60,855	42,813	4,016
Competing projects	141,653	1,608	13,601	26,492	17,476	11,358	2,338	20,245	25,153	22,334	1,048
Special programs	158,013	60,657	6,819	11,071	21,140	4,864	4,698	13,926	19,092	12,199	3,547
General research support	54,217†	639	5,169	9,551	6,899	4,264	1,256	7,989	9,809	8,094	547
Scientific evaluation	2,443	325	50	20	151	100	42	1,437	163	155	-
Int'l. ctrs. for med. res. & training	2,800	2,800	-	-	-	-	-	-	-	-	-
Largos Memorial Laboratory	500	-	500	-	-	-	-	-	-	-	-
General clinical research centers	30,443	30,443	-	-	-	-	-	-	-	-	-
Categorical clinical res. centers	11,150	-	1,100	1,500	-	500	400	-	4,500	3,150	-
Special research resources	10,850	10,850	-	-	-	-	-	-	-	-	-
Animal resources	5,100	5,100	-	-	-	-	-	-	-	-	-
Primate centers	10,500	10,500	-	-	-	-	-	-	-	-	-
Heart cooperative drug study	3,820	-	-	-	-	-	-	-	3,820	-	-
Pharmacology-toxicology research	3,500	-	-	-	-	-	-	3,500	-	-	-
Specialized research centers	14,190	-	-	-	12,590	-	-	-	800	800	-
Dental research institutes	3,000	-	-	-	-	-	3,000	-	-	-	-
Diagnosis & diag. radiology centers	1,000	-	-	-	-	-	-	1,000	-	-	-
Leukemia research support centers	1,500	-	-	-	1,500	-	-	-	-	-	-
Environmental health sci. insts.	3,000	-	-	-	-	-	-	-	-	-	3,000

Includes allocations for Division of Research Facilities and Resources, and Office of International Research.
Includes \$5,299,000, the National Institute of Mental Health's portion of a total of \$59,516,000.

NIH OBLIGATED FUNDS BY FUNCTION, 1955-1968*

EXCLUDING NATIONAL INSTITUTE OF MENTAL HEALTH

MILLIONS

\$1250

TOTAL NIH \$1123-1968

1000

750

500

250

0

1955

1960

1965

1968

Est.

CONSTRUCTION GRANTS

TRAINING AWARDS

RESEARCH GRANTS

COLLABORATIVE STUDIES

DIRECT RES.

2%

17%

56%

10%

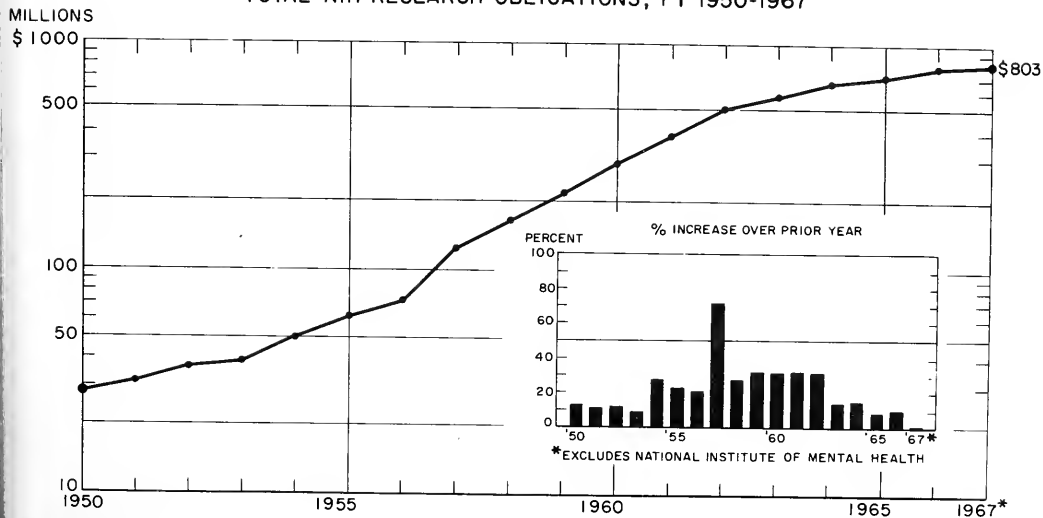
9%

6%

DEVELOPMENT
OF RESOURCESSUPPORT &
CONDUCT OF
RESEARCHOTHER
OPERATIONS†

* EXCLUDES DIRECT CONSTRUCTION. † STATE CONTROL PROGRAMS, BIOLOGICS CONTROL, PROFESSIONAL & TECHNICAL ASSISTANCE, REGIONAL MEDICAL PROGRAMS, DIRECT TRAINING, REVIEW AND APPROVAL, PROGRAM DIRECTION.

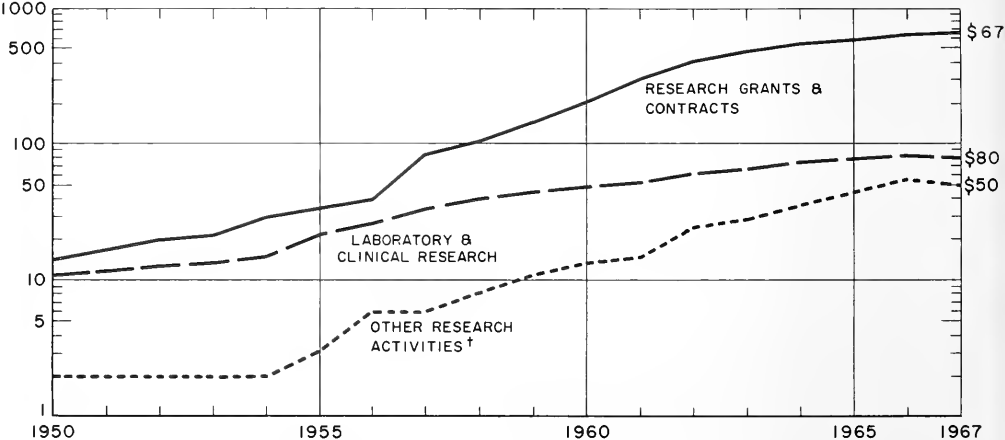
TOTAL NIH RESEARCH OBLIGATIONS, FY 1950-1967



NIH FUNDS OBLIGATED FOR RESEARCH, FY 1950-1967

MILLIONS

\$1000



†COLLABORATIVE STUDIES, EXCEPT RESEARCH CONTRACTS, P. L. 480 PROGRAM, AND RESEARCH ADMINISTRATION.

NIH GRANTS AND AWARDS, FY 1955-1967
(Dollars in millions)

Fiscal year	Total Amount*	Research grants		Construction grants †		Training grants		Fellowships‡ and traineeships		Research contracts	
		Number §	Amount	Number §	Amount	Number §	Amount	Number §	Amount	Number §	Amount
1955	\$ 55.2	3,280	\$ 35.5	—	\$ —	557	\$ 10.3	1,385	\$ 3.7	—	\$ —
1956	64.7	3,475	40.4	—	—	699	13.5	1,816	4.4	—	—
1957	156.1	6,300	82.9	109	30.0	1,119	25.6	2,575	7.3	43	1.9
1958	191.3	7,134	101.3	177	30.2	1,367	31.9	2,759	8.5	176	11.0
1959	260.2	9,056	141.4	205	31.6	1,934	48.9	3,306	12.7	321	17.2
1960	354.7	11,571	198.8	171	30.8	2,626	73.7	4,255	17.9	286	23.1
1961	481.0	13,534	272.9	156	38.0	3,586	108.4	4,480	24.3	311	22.9
1962	600.3	14,975	372.1	112	36.8	3,697	115.9	4,085	29.6	419	28.1
1963	710.1	15,973	430.9	178	51.3	4,114	140.6	4,561	38.0	496	38.3
1964	815.9	16,020	497.9	129	53.9	4,346	165.9	4,872	44.5	597	42.7
1965	892.8	15,792	538.8	120	64.9	4,568	183.9	5,297	49.8	474	48.6
1966	1,042.2	15,686	601.0	178	100.5	4,731	205.7	5,842	55.7	590	53.3
1967	1,171.7	15,948	657.7	173	84.7	4,680	218.4	5,972	59.3	889	85.9
1967 [♦]	926.9	14,313	593.3	75	42.3	2,497	131.7	4,819	50.4	835	83.9

*Includes State control programs, community demonstration projects, staffing grants, and DRMP planning grants.

† Includes \$13.7 million, \$6.2 million, and \$5.4 million for centers for research on mental retardation and related aspects of human development in FY 1965, FY 1966, and FY 1967^{||}, respectively.

‡ Includes part-time and postgraduate research fellows through FY 1961, and includes research career awards from 1962.

§ Each supplement is counted separately.

^{||} Includes NIMH and excludes DEHS, as do prior years. Total includes \$25.3 million for DRMP grants and \$40.4 million for NIMH health service grant.

♦ Excludes NIMH; includes DEHS. Total includes \$25.3 million for DRMP grants.

NIH GRANTS AND AWARDS BY PROGRAM FY 1967

MILLIONS

\$400

300

200

100

0

REGULAR
PROGRAMSSPECIAL
PROGRAMSMANPOWER
DEVELOPMENTDEVELOPMENT
OF RESOURCES

RESEARCH AWARDS

OTHER

TRADITIONAL
GRANTS

CENTERS

PROJECTS

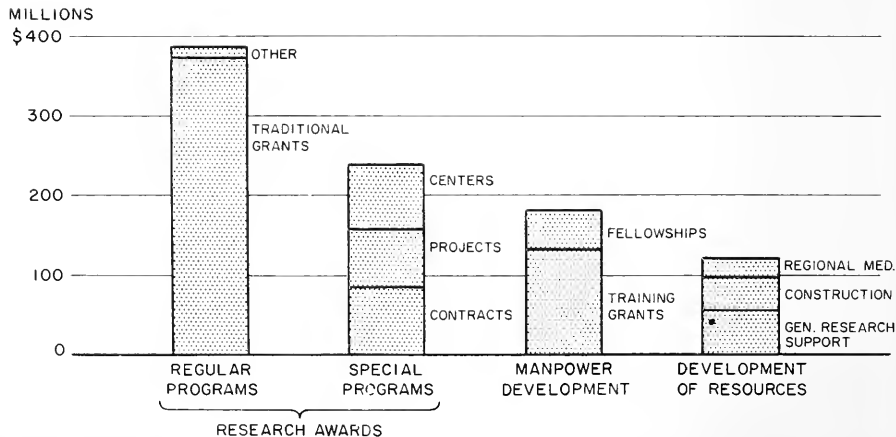
CONTRACTS

FELLOWSHIPS

TRAINING
GRANTS

REGIONAL MED.

CONSTRUCTION

GEN. RESEARCH
SUPPORT

NIH GRANTS, FELLOWSHIPS, AND RESEARCH CONTRACTS, FY 1967*
(Dollars in millions)

Institute, division or office	Total amount	Research grants		Construction grants		Training grants		Fellowships [†]		Research contracts	
		Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total [‡]	\$926.9	13,937	\$593.3	72	\$42.3	2,411	\$131.7	4,845	\$50.4	707	\$83.9
Allergy	68.2	1,460	46.5	-	-	194	8.9	254	3.4	110	9.4
Arthritis	108.3	2,689	82.9	-	-	313	14.8	444	6.1	48	4.5
Cancer	126.3	1,481	71.0	-	-	207	12.1	250	3.2	294	40.0
Child health	52.0	1,187	36.8	-	-	149	9.2	267	3.7	28	2.3
Dental	21.5	330	14.1	-	-	116	5.4	117	1.5	18	0.5
General medical	132.9	1,752	67.3	-	-	683	43.5	2,424	19.4	13	2.8
Heart	136.6	2,401	97.1	-	-	400	17.7	415	6.5	82	15.3
Neurology	89.9	1,806	64.9	-	-	297	16.4	466	5.4	47	3.2
DEHS	11.1	89	6.6	-	-	46	3.5	15	0.1	8	0.9
DRFR	146.5	602	103.4	72	42.3	6	0.2	5	§	5	0.6
OIR	4.1	140	2.7	-	-	-	-	188	1.2	-	-
DRMP [‡]	25.5	-	-	-	-	-	-	-	-	2	0.2
DBS	1.4	-	-	-	-	-	-	-	-	19	1.4
DRS, DRG, DCRT	1.0	-	-	-	-	-	-	-	-	17	1.0
OD, CC, Joint	1.7	-	-	-	-	-	-	-	-	16	1.7

*Excludes scientific evaluation grants as follows: research grants, \$2.0 million; training grants, \$0.6 million, and fellowships, \$0.3 million.

[†]Includes 1,247 research career awards for \$25.1 million and 198 traineeships for \$2.0 million.

[‡]Total includes \$25.3 million for Regional Medical Program grants, although the column has been eliminated to conserve space.

[§]Less than \$50,000.

NIH RESEARCH GRANT AWARDS BY CATEGORY, FY 1966 & 1967
(Dollars in thousands)

Type of grant	1966				1967			
	Number	Percent	Dollars	Percent	Number	Percent	Dollars	Percent
Total	15,153	100.0	\$600,973	100.0	13,937	100.0	\$593,313	100.0
Research projects	14,268	94.2	428,754	71.3	12,926	92.7	390,014	65.8
Projects traditional	12,978	85.6	372,051	61.9	12,492	89.6	372,442	62.8
Chemotherapy & psychopharmacology	248	1.6	11,725	2.0	136	1.0	7,143	1.2
International centers for med. res. & training	6	0.0	2,423	0.4	5	0.0	2,360	0.4
Conferences	80	0.5	1,604	0.3	59	0.4	971	0.2
Nat. Inst. of Mental Health projects	780	5.2	39,197	6.5	-	-	-	-
Other	176	1.2	1,754	0.3	234	1.7	7,098	1.2
Program projects & centers	529	3.5	127,412	21.2	617	4.4	151,599	25.5
Research program projects	271	1.8	55,737	9.3	325	2.3	69,602	11.7
General clinical research centers	88	0.6	31,295	5.2	89	0.6	28,610	4.8
Clinical research centers	74	0.5	21,463	3.6	72	0.5	22,847	3.9
Animal resources	34	0.2	8,420	1.4	49	0.4	11,902	2.0
Special research resources	59	0.4	9,808	1.6	62	0.4	10,758	1.8
Pharmacology-toxicology centers	3	0.0	689	0.1	8	0.1	2,608	0.4
Dental research institute program	-	-	-	-	4	0.0	2,743	0.5
Environmental health centers	-	-	-	-	8	0.1	2,529	0.4
General research support	263	1.7	38,807	6.5	294	2.1	41,700	7.0
Biomedical science support	91	0.6	5,000	0.8	93	0.7	6,000	1.0
Health science support	2	0.0	1,000	0.2	7	0.1	4,000	0.7

Note: The FY 1966 data include Mental Health and exclude Env. Health Sci., while the opposite is true for the FY 1967 data. This table highlights the effect of the PHS reorganization of January 1, 1967, on the NIH research grant program.

NIH RESEARCH GRANTS BY KIND OF RECIPIENT INSTITUTION, FY 1966 & 1967
(Dollars in millions)

Kind of recipient institution	FY 1966						FY 1967*		
	Incl. Mental Health; excl. Env. Health Sci.			Excl. Mental Health; incl. Env. Health Sci.					
	Number of institutions†	Grants		Number of institutions†	Grants		Number of institutions†	Grants	
Number		Amaunt‡	Number		Amaunt‡	Number		Amaunt‡	
Total	1,505	15,153	\$601.0	1,106	13,319	\$528.6	1,091	13,937	\$593.3
Higher education	410	11,591	440.5	372	10,442	407.4	365	10,991	462.6
Research institutes	137	796	48.5	120	717	45.1	128	711	46.1
Hospitals	385	1,612	78.6	217	1,260	55.9	210	1,412	64.8
Grad. training centers	3	5	0.3	1	1	0.1	1	1	§
Patient centers	59	105	5.9	12	36	2.0	16	42	2.5
Social service agencies	33	36	3.5	—	—	—	—	—	—
Associations, etc.	64	149	6.1	37	112	4.1	44	83	3.6
Government units	56	79	4.1	24	40	2.6	16	42	2.5
Other domestic	42	61	3.4	29	45	2.2	39	56	2.7
Foreign	316	719	10.0	294	666	9.3	272	599	8.5

*Preliminary data.

†The count of institutions considers each branch separately.

‡Dollar totals may not add because of rounding.

§Less than \$50,000.

NIH RESEARCH GRANTS BY DISCIPLINE FIELD, FY 1966 & 1967
(Dollars in thousands)

Discipline /field*	FY 1966				FY 1967 [†]			
	Incl. Mental Health, excl. Env. Health Sci.		Excl. Mental Health, incl. Env. Health Sci.		Number	Percent	Amount	Percent
	Amount	Percent	Amount	Percent				
Total	\$600,973	100.0	\$528,620	100.0	13,937	100.0	\$593,313	100.0
Biochemistry & biophysics	78,066	13.0	77,443	14.6	3,264	23.4	88,860	15.0
Physiological sciences	73,078	12.1	72,157	13.6	3,024	21.7	77,657	13.1
Pharmacology & pharmaceut	30,590	5.1	22,784	4.3	956	6.9	29,034	4.9
Microbiology & parasitology	22,116	3.7	22,149	4.2	881	6.3	28,525	4.8
Pathology	26,683	4.4	26,695	5.1	728	5.2	26,786	4.5
Immunology	17,909	3.0	17,814	3.4	697	5.0	21,838	3.7
Cell biology	15,625	2.6	15,594	3.0	654	4.7	17,432	2.9
Genetics	13,642	2.3	13,427	2.5	538	3.9	16,697	2.8
Chemistry	10,878	1.8	10,625	2.0	545	3.9	13,451	2.3
Growth & development	14,243	2.4	13,850	2.6	473	3.4	12,008	2.0
Psychology	51,864	8.6	9,568	1.8	317	2.3	9,323	1.6
Nutrition	7,813	1.3	7,824	1.5	286	2.1	8,233	1.4
Program projects & centers	127,412	21.2	126,736	24.0	617	4.4	151,599	25.6
General grants-in-aid	44,807	7.5	44,807	8.5	428	3.1	55,413	9.3
Other	66,247	11.0	47,147	8.9	529	3.8	36,457	6.1

*Rank based on FY 1967 dollars.

[†]Preliminary distribution.

NIH RESEARCH GRANTS TO INSTITUTIONS OF HIGHER EDUCATION BY MAJOR COMPONENT, FY 1966 & 1967
(Dallars in thousands)

Major component	FY 1966				FY 1967*	
	Incl. Mental Health; excl. Env. Health Sci.		Excl. Mental Health; incl. Env. Health Sci.			
	Number	Amount	Number	Amount	Number	Amount
Total higher education	11,591	\$440,509	10,442	\$407,444	10,991	\$462,593
Health-related components	7,859	325,977	7,458	310,595	7,825	346,884
Medical	6,787	287,212	6,438	273,804	6,751	300,787
Public health	167	9,691	161	9,656	154	10,633
Dental	258	8,810	258	8,760	265	12,502
Joint†	263	7,048	249	6,193	251	7,042
Veterinary	154	4,846	152	4,971	181	7,025
Hospitals	49	3,524	49	3,667	56	4,419
Pharmacy	139	3,084	123	2,811	139	3,588
Other health-related	42	1,762	28	733	28	888
Other components	3,732	114,532	2,984	96,849	3,166	115,709
Arts & sciences	2,609	71,122	1,976	57,217	2,120	66,840
Agriculture	412	9,351	430	10,584	405	11,307
Graduate schools	191	8,445	148	6,883	167	8,965
Engineering	172	7,108	168	6,845	181	8,346
Research & computer ctrs.	97	6,608	88	6,397	109	6,893
University-wide	102	6,171	94	5,582	110	9,952
Education	65	2,203	19	611	14	640
Others	84	3,524	61	2,730	60	2,766

*Preliminary distribution.

†Includes departments of basic medical science serving two or more major components, and the University of Rochester, School of Medicine and Dentistry.

GRANTEE EXPENDITURES OF NIH RESEARCH AND TRAINING GRANTS
(Dollars in thousands)

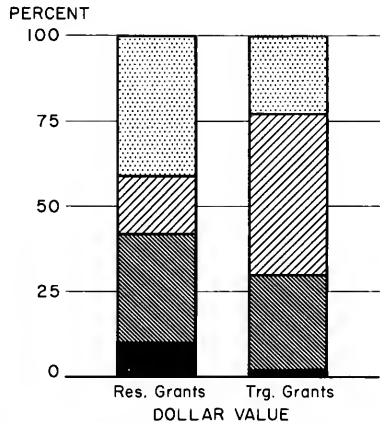
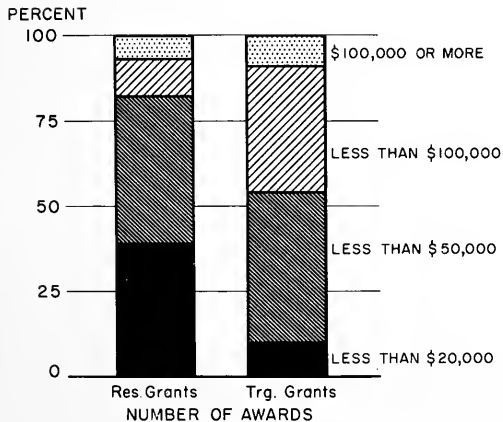
	Research projects*			Program projects and centers*	General research support*	Training projects†		
	Total	Traditional	Other			Total	Graduate	Undergraduate
Funds available	5441,344	5390,465	550,879	\$109,154	\$61,516	\$184,408	\$167,924	\$16,484
Grantee expenditures	405,403	361,321	44,082	93,378	35,833	152,491	139,203	13,288
Indirect costs	56,582	51,390	5,192	10,221	—	10,288	9,335	953
Direct costs	348,821	309,931	38,890	83,157	35,833	142,203	129,868	12,335
Personnel	220,831	191,252	29,579	45,217	18,805	55,951	46,246	9,705
Travel	7,407	6,160	1,247	876	300	2,832	2,627	205
Equipment	42,366	40,814	1,552	9,065	8,857	6,199	5,786	413
Supplies	59,281	56,965	2,316	7,869	3,439	8,044	7,666	378
Hospitalization	550	109	441	11,457	49	17	17	—
Stipends & tuition	n a	n a	n a	n a	2,588	64,764	63,434	1,330
Other	18,385	14,631	3,754	8,673	1,795	4,396	4,092	304
Grantee obligations	91	91	—	4	—	—	—	—
Grantee deficit‡	(2,150)	(2,029)	(121)	(102)	—	(54)	(42)	(12)
Unobligated balance‡	38,000	31,082	6,918	15,874	25,683	31,971	28,763	3,208

* Based on a 10 percent sample (100% sample of grants over \$100,000) of the reports of expenditures for FY 1965 grants.

† Based on a 10 percent sample (100% sample of grants over \$100,000) of the reports of expenditures for FY 1964 grants.

‡ At the end of each budget period, the grantee will either have spent more than the amount NIH made available (deficit) or have funds remaining (balance) which will be transferred forward to the next budget period.

PERCENTAGE DISTRIBUTION OF NIH RESEARCH AND TRAINING GRANTS
BY DOLLAR-AWARD INTERVALS
FY 1967



NIH RESEARCH AND TRAINING GRANTS BY DOLLAR-AWARD INTERVALS, FY 1967
(Dallars in thousands)

Dallar-award interval	Research grants (Median award – \$25,075)				Training grants (Median award – \$42,770)			
	Number of grants		Dollar value of awards		Number of grants		Dollar value of awards	
	Total	Percent	Total	Percent	Total	Percent	Total	Percent
Total	13,937	100.0	\$593,313	100.0	2,411	100.0	\$131,662	100.0
Less than 5,000	1,088	7.8	2,456	0.4	45	1.9	111	0.1
5,000 – 9,999	943	6.8	7,266	1.2	44	1.8	332	0.3
10,000 – 19,999	3,363	24.1	51,220	8.6	163	6.7	2,558	1.9
20,000 – 29,999	3,109	22.3	76,887	13.0	356	14.7	9,053	6.9
30,000 – 39,999	1,943	13.9	67,079	11.3	359	14.9	12,498	9.5
40,000 – 49,999	1,045	7.5	46,434	7.8	330	13.7	14,790	11.2
50,000 – 74,999	1,097	7.9	65,767	11.1	599	24.9	36,490	27.7
75,000 – 99,999	407	2.9	34,917	5.9	296	12.3	25,383	19.3
100,000 – 149,999	324	2.3	39,510	6.7	169	7.0	20,207	15.3
150,000 – 199,999	181	1.3	31,085	5.2	34	1.4	5,881	4.5
200,000 – 299,999	208	1.6	50,531	8.5	14	0.6	3,224	2.4
300,000 – 999,999	214	1.5	95,936	16.2	2	0.1	1,135	0.9
1,000,000 & over	15	0.1	24,225	4.1	–	–	–	–

COUNCIL APPROVAL RATES FOR NEW NIH RESEARCH GRANT APPLICATIONS REVIEWED, 1964-1967*

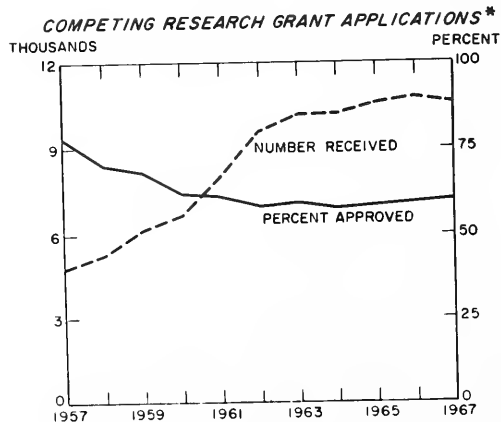
Institute or division	1964			1965			1966			1967		
	Number reviewed	% approved No.	Dollars†	Number reviewed	% approved No.	Dollars†	Number reviewed	% approved No.	Dollars†	Number reviewed	% approved No.	Dollars†
Total	6,780	51.2	43.1	6,611	51.0	44.5	6,875	53.1	47.2	5,314	55.4	44.8
Allergy	571	49.0	46.8	518	54.1	48.7	611	58.1	52.9	604	62.4	56.3
Arthritis	1,030	55.2	47.9	934	53.2	46.8	931	54.1	50.6	940	55.9	47.1
Cancer	515	42.7	38.8	458	44.1	43.9	483	44.3	53.1	489	47.9	39.1
Child health	298	57.0	46.4	574	46.3	33.7	646	46.6	36.5	617	47.3	35.4
Dental	182	59.9	55.5	205	50.7	44.2	185	51.9	43.4	185	44.9	55.6
General med.	840	59.0	51.8	857	63.2	59.6	945	62.4	53.7	890	61.1	42.0
Heart	782	48.7	42.8	734	48.2	39.6	815	52.6	43.9	737	48.7	41.4
Mental	1,849	43.5	32.2	1,600	42.9	37.7	1,527	47.8	41.1	‡		
Neurology	620	58.5	46.8	628	57.5	48.4	607	55.4	46.1	681	60.9	52.1
DRFR	47	63.8	56.9	61	60.7	46.5	59	64.4	59.1	57	61.4	51.1
OIR	46	100.0	100.0	42	95.2	100.0	66	92.4	107.3	73	89.0	100.0
DEHS	‡			‡			‡			41	36.7	25.0

*Based on a council-year, which consists of June, November, and March meetings.

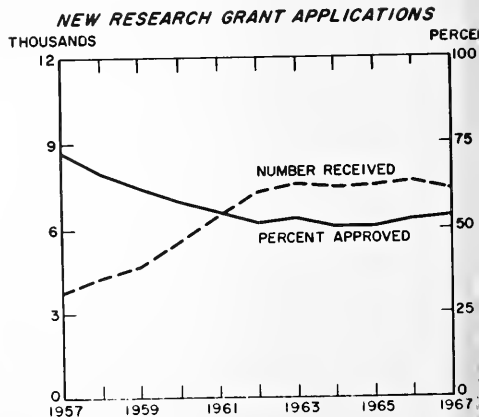
†Ratio of amounts approved by council to amounts requested by grantee.

‡PHS reorganization on January 1, 1967, raised Mental Health to bureau status and brought Div. Env. Health Sci. into NIH. Totals reflect organization at end of each fiscal year.

TREND OF APPROVAL RATES, COUNCIL YEARS 1957-1967



*NEW AND RENEWALS ONLY.



NIH REVIEW OF COMPETING RESEARCH APPLICATIONS BY PRIORITY SCORE DISTRIBUTION, COUNCIL YEARS 1964-1967

Council year	Initial review-group recommendations						National Advisory Council actions						Institute awards					
	Total	100- 199	200- 299	300- 399	400- 500	No Score	Total	100- 199	200- 299	300- 399	400- 500	No Score	Total	100- 199	200- 299	300- 399	400- 500	No Score
1964																		
Approvals	6,463	1,568	2,999	1,587	256	53	6,279	1,634	2,984	1,460	170	31	5,882	1,557	2,837	1,329	129	30
Percent	100.0	24.3	46.4	24.5	4.0	0.8	100.0	26.0	47.5	23.3	2.7	0.5	100.0	26.5	48.2	22.6	2.2	0.5
Average*	258						253						251					
1965																		
Approvals	6,645	1,509	3,183	1,700	245	8	6,444	1,553	3,146	1,580	164	1	5,536	1,501	2,787	1,165	82	1
Percent	100.0	22.7	47.9	25.6	3.7	0.1	100.0	24.1	48.8	24.5	2.6	0.0	100.0	27.1	50.3	21.1	1.5	0.0
Average*	260						256						247					
1966																		
Approvals	6,637	1,731	3,106	1,534	236	30	6,544	1,829	3,046	1,468	199	2	4,881	1,730	2,435	673	41	2
Percent	100.0	26.1	46.8	23.1	3.6	0.4	100.0	27.9	46.6	22.4	3.0	0.0	100.0	35.4	49.9	13.8	0.9	0.0
Average*	254						251						230					
1967																		
Approvals†	5,578	1,789	2,622	986	165	16	5,607	1,903	2,594	951	158	1	4,217	1,716	2,125	368	8	0
Percent	100.0	32.1	47.0	17.7	2.9	0.3	100.0	33.9	46.3	17.0	2.8	0.0	100.0	40.7	50.4	8.7	0.2	0.0
Average*	241						239						218					

*Computation excludes applications having no priority score.

†Includes Env. Health Sci.; excludes Mental Health. Awards are incomplete for council-year 1967 approvals, since applications are approved with start dates in subsequent years.

NIH TRAINING PROGRAM BY TYPE OF AWARD, FY 1957-1967
(Dollars in thousands)

Type of award	1957	1960	1962	1963	1964	1965	1966	1967 ^{II}	1967 ^{III}
Total	\$32,898	\$91,654	\$145,456	\$178,594	\$210,377	\$233,726	\$261,407	\$277,749	\$182,070
Training grants	25,629	73,744*	115,857	140,639	165,908	183,931	205,733	218,315	131,662
Fellowships	5,416	14,859	26,773	35,805	42,205	47,614	53,627	57,456	48,430
Full-time regular fellows	3,985	10,081	16,088	20,412	21,215	23,987	26,691	27,732	22,142
Predoctoral	1,125	3,237	4,650	7,604	8,500	10,641	12,373	12,398	8,244
Postdoctoral	2,093	5,128	8,311	8,174	8,118	7,968	8,192	8,133	7,710
Special	688	1,515	2,769	3,813	4,121	4,925	5,691	6,788	5,812
Other [†]	79	201	358	821	476	454	435	413	376
Part-time students	622	817	13 [‡]	-	-	-	-	-	-
Other	809	3,961	10,672	15,393	20,991	23,626	26,936	29,724	26,288
Postgraduate research fellows	337	514	4 [‡]	-	-	-	-	-	-
Foreign fellows	-	448	700	1,199	1,199	1,199	1,190	1,201	1,201
Senior fellows & special (grants)	472	2,999	- [§]	-	-	-	-	-	-
Research career development awards	-	-	7,423	10,276	14,285	16,826	20,355	23,105	20,276
Research career awards	-	-	2,545	3,918	5,507	5,601	5,391	5,418	4,811
Traineeships	1,853	3,051	2,826	2,150	2,264	2,181	2,047	1,978	1,978

*Includes amounts for forward financing.

[†]Supply grants, special allowances, and supplemental fees applicable to previous fiscal years' awards.

[‡]Included under general research support program beginning in FY 1962.

[§]Transferred to RCA and RCDA programs in FY 1962.

^{II}Includes Mental Health and excludes Env. Health Sci., as do prior years.

^{III}Excludes Mental Health; includes Env. Health Sci.

NUMBER OF PERSONS IN NIH TRAINING PROGRAMS, FY 1967

Institute or division	Total		Trainees*				Fellowships & traineeships		Research career & research career development awards
			Under training grants†		Under gen. res. support grants †				
	Post- doctoral	Pre- doctoral	Post- doctoral	Pre- doctoral	Post- doctoral	Pre- doctoral	Post- doctoral	Pre- doctoral	Post- doctoral
Total	8,304	15,168	5,062	10,095	156	3,444	1,931	1,629	1,155
Allergy	604	765	357	764	—	—	139	1	108
Arthritis	1,324	299	893	298	—	—	279	1	152
Cancer	621	489	380	487	—	—	156	2	85
Child Health	541	631	289	625	—	—	158	6	94
Dental	358	232	253	222	—	—	52	10	53
General Medical	1,757	7,937	963	6,344	—	—	453	1,593	341
Heart	1,253	695	868	687	—	—	186	8	199
Neurology	1,475	269	1,031	269	—	—	321	—	123
Res. Facilities & Resources	161	3,444	—	—	156	3,444	5	—	—
Off. of Internat'l Research	175	—	—	—	—	—	175	—	—
Envir. Health Sciences	35	407	28	399	—	—	7	8	—

* Preliminary data. Includes 9,235 full-time and 9,522 part-time trainees.

† FY 1966 funds.

NUMBER OF NIH FELLOWS AND TRAINEES BY DISCIPLINE, FY 1967

Discipline	Total*				Fellowships†		Indirect trainees‡					
							Under training grants				Under general research support grants§	
	Postdoctoral		Predoctoral		Post-doctoral	Pre-doctoral	Postdoctoral		Predoctoral			
	Total	Full-time	Total	Full-time			Total	Full-time	Total	Full-time		
Total	8,304	6,698	15,168	7,252	3,086	1,629	5,062	3,592	10,095	5,487	3,600	
Biochemistry	679	576	1,682	1,097	438	222	230	138	1,175	846	296	
Microbiology	514	438	1,460	964	277	156	235	161	1,114	790	192	
Physiology	529	436	1,273	669	295	129	218	139	813	522	347	
Genetics	241	200	583	387	140	66	95	60	478	321	45	
Biology	88	67	381	266	36	53	52	31	323	213	5	
Other basic sciences	1,648	1,280	4,717	1,937	714	425	902	563	3,479	1,464	845	
Internal medicine	1,821	1,536	1,136	28	435	—	1,355	1,097	460	22	707	
Psychiatry	4	3	98	1	3	—	1	—	1	1	97	
Other clinical medicine	2,019	1,541	1,082	86	364	1	1,626	1,168	512	83	598	
Clinical dentistry	166	139	375	24	46	1	106	93	34	23	354	
Other health-rel. pro's.	279	200	835	522	127	78	139	71	705	435	65	
Community health	9	9	10	3	8	—	1	1	3	3	7	
Environmental health	26	20	336	245	7	1	19	13	326	244	9	
Psychology	109	98	352	297	63	13	46	35	321	282	18	
Social sciences	20	16	206	163	8	24	12	8	180	137	2	
Physical sciences	137	124	610	536	110	456	25	14	143	78	13	
Other	15	15	32	27	15	4	—	—	28	23	—	

*Preliminary data.

†Includes fellowships, traineeships, and research career awards, which are all full-time.

‡FY 1966 funds.

||Defined as in training

for 100 percent of the time for a period of at least 8 months.

§Includes 156 postdoctoral trainees (20 full-time) and 3,444 predoctoral trainees (136 full-time).

GRANTS FOR HEALTH RESEARCH FACILITIES CONSTRUCTION BY TYPE OF FACILITY, FY 1957-1967*

Type of facility	1957-1964		1965		1966		1967		Total FY 1957-1967†	
	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent
Total	\$276,503	100.0	\$49,649	100.0	\$51,953	100.0	\$36,894	100.0	\$414,999	100.0
Schools	215,574	78.0	42,789	86.2	43,331	83.4	28,914	78.4	330,608	79.7
Medical	137,443	49.7	32,295	65.1	31,129	59.9	20,422	55.4	221,289	53.3
Dental	4,622	1.7	1,625	3.3	3,081	5.9	—	—	9,328	2.3
Public health	4,698	1.7	469	0.9	3,388	6.5	1,216	3.3	9,771	2.4
Other	68,811	24.9	8,400	16.9	5,733	11.1	7,276	19.7	90,220	21.7
Private nonprofit institutions	47,106	17.0	5,815	11.7	7,199	13.9	5,872	15.9	65,992	15.9
Hospitals	31,258	11.3	3,450	6.9	4,933	9.5	5,400	14.6	45,041	10.9
Other	15,848	5.7	2,365	4.8	2,266	4.4	472	1.3	20,951	5.0
Other public institutions	13,823	5.0	1,045	2.1	1,423	2.7	2,108	5.7	18,399	4.4
Hospitals	11,505	4.2	895	1.8	1,423	2.7	2,108	5.7	15,931	3.8
Other	2,318	0.8	150	0.3	—	—	—	—	2,468	0.6

* Does not include \$26 million for centers for research on mental retardation and related aspects of human development.

† Amounts of awards have been adjusted to reflect refunds due to completion of projects for less than estimated cost, reductions in estimates, etc.

NIH GRANTS AND AWARDS BY STATE AND TYPE OF AWARD, FY 1967
(Dollars in thousands)

State	Total *	Research grants		Research contracts		Construction grants		Training grants		Fellowships and traineeships		Research career awards	
		Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total U.S. & Possessions	\$915,256	13,317	\$584,900	681	\$82,880	72	\$42,313	2,400	\$131,239	3,388	\$23,513	1,247	\$25,087
Alabama	13,123	106	6,593	12	3,776	2	995	25	1,083	12	84	13	274
Alaska	486	3	467	-	-	-	-	-	-	2	19	-	-
Arizona	1,367	35	776	2	110	-	-	8	272	8	49	2	41
Arkansas	2,424	55	1,792	-	-	-	-	6	159	6	44	3	69
California	104,394	1,463	71,838	66	8,150	8	3,544	215	13,520	553	3,798	118	2,033
Colorado	13,352	198	7,566	3	318	3	1,700	37	1,894	47	347	15	288
Connecticut	15,987	272	10,337	15	1,155	-	-	51	3,124	103	666	30	692
Delaware	327	12	316	-	-	-	-	-	-	2	11	-	-
District of Columbia	13,598	158	5,984	45	5,080	-	-	40	1,762	35	237	9	182
Florida	15,649	264	10,766	9	1,113	1	125	54	2,949	36	243	24	453
Georgia	10,361	171	6,765	2	82	1	663	43	2,144	13	103	17	364
Hawaii	2,854	62	2,270	6	272	-	-	6	203	6	43	1	18
Idaho	-	-	-	-	-	-	-	-	-	-	-	-	-
Illinois	44,791	760	29,127	31	4,138	4	617	135	7,900	194	1,170	67	1,503
Indiana	15,100	226	9,335	12	900	1	1,374	38	2,173	92	522	18	411
Iowa	8,887	156	6,188	1	21	-	-	37	1,670	57	357	14	364

See footnotes at end of table.

Continu

NIH GRANTS AND AWARDS BY STATE AND TYPE OF AWARD, FY 1967 (Cont.)
(Dollars in thousands)

State	Total*	Research grants		Research contracts		Construction grants		Training grants		Fellowships and traineeships		Research career awards	
		Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Kansas	\$ 7,504	143	\$ 4,371	2	\$ 70	1	\$ 46	25	\$ 1,268	34	\$ 211	15	\$ 277
Kentucky	5,934	127	3,760	3	66	1	235	29	1,118	17	96	18	312
Louisiana	12,396	167	8,879	6	420	-	-	42	2,248	19	104	15	255
Maine	1,872	33	1,303	1	183	-	-	3	132	1	1	2	59
Maryland	36,306	410	19,690	75	9,021	-	-	84	4,966	184	1,235	39	876
Massachusetts	83,706	1,091	53,501	63	9,943	4	4,132	187	10,447	459	3,128	133	2,555
Michigan	34,417	457	17,461	26	4,139	4	6,748	69	3,748	94	568	25	459
Minnesota	21,517	342	13,695	19	974	2	557	83	4,899	58	477	26	544
Mississippi	3,216	70	2,059	1	31	-	-	14	644	15	107	3	52
Missouri	26,785	333	16,366	12	1,334	2	866	67	3,391	56	460	32	639
Montana	600	21	471	-	-	-	-	1	67	4	17	4	45
Nebraska	3,146	71	2,009	-	-	-	-	15	569	16	125	6	93
Nevada	147	5	147	-	-	-	-	-	-	-	-	-	-
New Hampshire	2,159	53	1,686	-	-	1	7	8	260	9	66	7	140
New Jersey	10,645	155	5,751	15	3,367	-	-	24	844	50	313	4	73
New Mexico	2,039	48	1,461	-	-	-	-	4	122	1	6	-	-
New York	136,102	2,061	95,694	84	10,165	7	4,983	299	16,131	399	2,923	160	3,394
North Carolina	30,602	357	16,044	12	2,017	6	4,366	86	6,061	74	528	45	1,046

See footnotes at end of table.

Continued

NIH GRANTS AND AWARDS BY STATE AND TYPE OF AWARD, FY 1967 (Cont.)
(Dollars in thousands)

State	Total*	Research grants		Research contracts		Construction grants		Training grants		Fellowships and traineeships		Research career awards	
		Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
North Dakota	\$ 462	9	\$ 197	1	\$ 104	-	\$ -	4	\$ 112	4	\$ 13	2	\$ 36
Ohio	27,994	466	18,100	29	2,479	4	1,148	71	4,185	106	799	58	1,174
Oklahoma	5,424	118	3,953	-	-	-	-	21	886	17	130	14	277
Oregon	12,017	187	9,244	3	175	-	-	37	1,814	34	252	19	313
Pennsylvania	60,492	893	40,121	34	3,082	10	3,340	160	8,684	152	1,123	100	2,006
Rhode Island	2,849	69	2,061	1	50	-	-	9	658	9	67	1	13
South Carolina	2,263	41	1,049	-	-	1	665	9	411	1	8	4	64
South Dakota	366	14	235	-	-	-	-	3	90	1	7	2	34
Tennessee	14,588	237	10,330	2	47	2	150	47	2,351	47	343	28	600
Texas	32,892	423	24,230	13	1,736	2	765	78	4,213	71	555	45	997
Utah	8,488	104	4,333	4	302	1	231	22	1,159	27	234	17	286
Vermont	2,634	51	1,582	4	247	-	-	9	327	7	55	8	159
Virginia	13,896	144	5,180	42	5,752	1	478	43	1,737	21	155	13	303
Washington	20,705	291	12,546	6	466	1	1,664	65	4,286	88	722	36	755
West Virginia	2,115	52	1,335	2	161	-	-	11	398	1	8	3	62
Wisconsin	23,905	292	14,577	15	1,144	2	2,913	59	3,489	142	964	30	474
Wyoming	180	5	170	-	-	-	-	-	-	3	10	-	-
Puerto Rico	2,186	36	1,189	2	289	-	-	17	672	1	10	2	26

*Totals may not add because of rounding. Total includes \$25.3 million for Regional Medical Programs, though not included in a column to save space.

NIH FOREIGN GRANTS AND AWARDS, FY 1967
(Dollars in thousands)

Country*	Total awards	Research grants & contracts		U.S. fellows & trainees abroad		Training grants		Visiting scientists†		International research fellows†		Foreign currency program†
	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Amount
Total†	\$11,670	650	\$9,439	210	\$1,808	11	\$423	129	\$1,157	185	\$1,358	\$3,559
WESTERN HEMISPHERE	3,049	157	2,664	8	74	7	311	9	103	35	243	—
Canada	1,265	47	1,013	5	60	5	192	3	23	—	—	—
Argentina	208	19	208	—	—	—	—	2	20	3	24	—
Brazil	229	23	226	2	3	—	—	1	4	—	—	—
Peru	258	14	258	—	—	—	—	—	—	3	20	—
Other	1,089	54	959	1	11	2	119	3	56	29	198	—
EUROPE	5,233	256	3,667	169	1,454	4	112	61	499	88	571	474
Belgium	148	13	133	1	15	—	—	3	22	6	44	—
Denmark	269	10	190	6	67	1	12	2	8	3	19	—
France	441	22	365	9	76	—	—	3	19	6	45	—
Italy	533	36	439	13	94	—	—	5	37	7	44	—
Netherlands	300	14	240	6	60	—	—	2	10	4	29	—
Norway	140	7	132	1	8	—	—	2	43	7	59	—
Sweden	1,195	40	928	22	167	3	100	3	18	6	31	—
Switzerland	275	12	174	12	101	—	—	2	5	1	6	—
United Kingdom	1,397	42	603	90	794	—	—	18	156	8	54	—
West Germany	171	12	100	9	71	—	—	12	110	6	41	—
Other	364	48	363	—	1	—	—	9	70	34	198	474

Continued

NIH FOREIGN GRANTS AND AWARDS, FY 1967 (Cont.)
(Dollars in thousands)

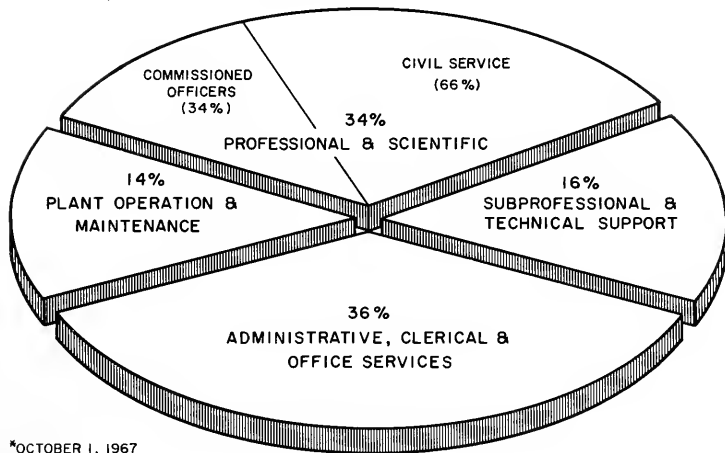
Country*	Total awards	Research grants & contracts		U S fellows & trainees abroad		Training grants		Visiting scientists [†]		International research fellows [†]		Foreign currency program [†]
	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Amount
AFRICA	\$ 485	19	\$ 472	1	13	-	-	-	-	5	\$ 48	\$ 299
South Africa (Republic of)	298	13	285	1	13	-	-	-	-	4	30	-
Other	187	6	187	-	-	-	-	-	-	1	18	299
MIDDLE EAST	1,026	53	931	11	95	-	-	6	60	10	77	790
Israel	906	47	811	11	95	-	-	5	42	10	77	790
Other	120	6	120	-	-	-	-	1	17	-	-	-
SOUTH ASIA AND FAR EAST	1,875	165	1,703	21	172	-	-	53	495	47	419	1,996
Australia	544	34	433	13	111	-	-	6	78	9	75	-
Japan	1,055	103	1,003	7	52	-	-	32	279	14	97	-
Other	276	28	267	1	9	-	-	15	138	24	246	1,996

*Awards to international organizations are shown under the country where the organization is located, as follows:

Country	International organization	Research grants		Training grants	
Guatemala	Institute of Nutrition of Central America and Panama	3	\$171	1	\$68
Switzerland	World Health Organization	1	22	-	-
United Kingdom	Federal Dentaire Internationale	1	18	-	-
Switzerland	International Union Against Cancer	1	50	-	-
Peru	VIII Inter-American Congress of Cardiology	1	25	-	-

[†]These items are not included in the totals, since they do not represent NIH expenditures in foreign countries.

[‡]Does not include 5 grants totaling \$2.4 million to International Centers for Medical Research and Training, nor awards to U.S. institutions for work abroad.

TOTAL NIH STAFF ***10,659 FULL-TIME SCIENTISTS AND SUPPORTIVE WORKERS**

*OCTOBER 1, 1967

NIH EMPLOYMENT BY OCCUPATIONAL GROUPING
October 1, 1967

Total NIH		10,659
Professional and scientific		3,679
Administration	66	
Direct research and services	3,116	
Division of Research Grants	134	
Other extramural activities	363	
Sub-professional and technical support		1,662
Administrative, clerical, and office services		3,830
Plant operation and maintenance		1,488

NIH EMPLOYMENT BY PROGRAM AND PAY SYSTEM

October 1, 1967

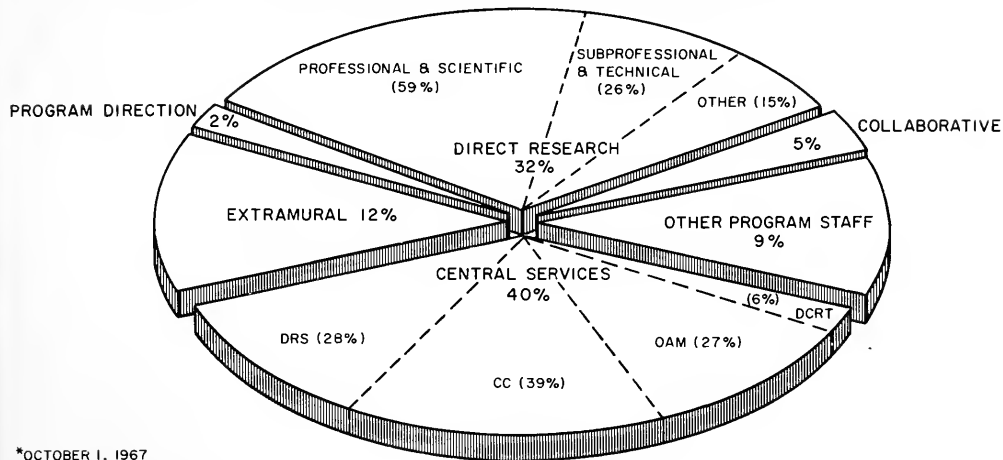
Organization	Full-time employees							Part-time and intermittent		
	Full-time total	Civil service:*			Civil service: excepted		Commissioned corps	Part-time total	Civil service	
		GS	208g	Wage board	Visiting program	Staff fellows			Regular: GS, WB	Excepted: Cons., Adv.
Total	10,659	7,331	82	1,840	90	59	1,257	988	292	696
OD	181	151	6	-	1	-	23	48	9	39
OAM	1,182	818	1	361	-	-	2	13	13	-
NIAID	703	495	3	78	6	5	116	61	7	54
NIAMD	631	432	11	8	36	15	129	64	16	48
NCI	1,400	1,019	16	67	14	10	274	165	21	144
NICHD	378	288	6	9	1	7	67	80	20	60
NIDR	292	204	3	8	3	2	72	44	11	33
NIGMS	201	166	2	-	1	6	26	24	6	18
NHI	638	450	7	18	17	8	138	57	31	26
NINDB	741	582	13	33	7	3	103	135	29	106
DRFR	140	126	-	-	-	-	14	32	8	24
DEHS	106	88	2	5	-	1	10	30	5	25
DRMP	101	84	4	-	-	-	13	31	1	30
CC	1,642	974	2	522	3	1	140	81	80	1
DBS	277	218	1	27	1	1	29	7	3	4
DCRT	270	240	1	-	-	-	29	4	4	-
DRG	546	522	4	1	-	-	19	100	19	81
DRS	1,230	474	-	703	-	-	53	12	9	3

*Includes 2,273 professional and scientific employees.

NIH EMPLOYMENT BY PROGRAM 1963-1967

Institute or division	Full-time					Part-time				
	7/1/63	7/1/64	7/1/65	7/1/66	7/1/67	7/1/63	7/1/64	7/1/65	7/1/66	7/1/67
Total	10,463	10,656	11,170	11,719	10,804	973	939	1,040	1,087	1,014
OD	1,337	1,445	1,403	1,457	1,434	50	56	103	122	134
Allergy	678	668	706	720	700	48	30	35	49	48
Arthritis	592	579	576	620	635	96	95	50	71	63
Cancer	1,218	1,199	1,279	1,338	1,441	117	69	81	102	159
Child Health	35	92	167	331	347	13	54	83	89	87
Dental	254	254	305	303	296	41	40	37	47	37
General Medical Sciences	125	138	151	178	199	17	13	18	20	24
Heart	690	690	735	648	661	77	62	62	50	52
Mental Health	1,025	1,057	1,151	1,231	—	259	245	264	238	—
Neurology	714	674	764	780	806	62	76	106	107	118
Clinical Center	1,686	1,713	1,673	1,628	1,600	101	115	105	114	101
Biologics Standards	232	245	267	299	302	15	17	23	10	11
Computer Res. & Tech.	—	—	—	220	274	—	—	—	2	2
Env. Health Sci.	—	—	—	—	60	—	—	—	—	27
Res. Facilities & Resources	94	110	125	135	144	18	21	24	26	29
Research Grants	521	521	556	584	565	27	28	31	17	83
Regional Medical Programs	—	—	—	46	95	—	—	—	16	30
Research Services	1,262	1,271	1,312	1,201	1,245	32	18	18	7	9

FUNCTIONAL DISTRIBUTION OF NIH PERSONNEL *
 10,659 FULL-TIME COMMISSIONED OFFICERS AND CIVIL SERVICE EMPLOYEES



*OCTOBER 1, 1967

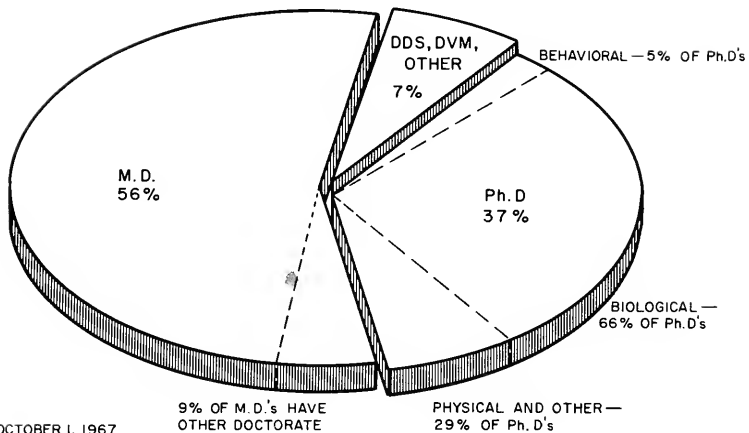
FUNCTIONAL DISTRIBUTION OF NIH PERSONNEL

October 1, 1967

Total staff 10,659*				
Direct research		3,432	Central services	4,269
Professional and scientific	2,019		Division of Research Services	1,216
Sub-professional and technical	892		Professional and scientific	156
Other	521		Other	1,060
Collaborative studies		515	Clinical Center	1,643
Professional and scientific	229		Professional and scientific	571
Other	286		Other	1,072
Extramural research		1,255	Office of Admin. Mgt.	1,170
Professional and scientific	303		Professional and scientific	3
Other	952		Other	1,167
			Div. of Computer Res. & Tech.	240
			Professional and scientific	61
			Other	179
			Program direction (OD-NIH)	181
			Professional and scientific	52
			Other	129
			Other program staff	1,007
			Professional and scientific	285
			Other	722

*Includes full-time civil service employees, commissioned officers, staff fellows, and visiting scientists at Bethesda and in the field.

NIH PROFESSIONAL STAFF*
1922 PROFESSIONALS WITH DOCTORAL DEGREES



NIH PROFESSIONAL STAFF WITH DOCTORAL DEGREES, BY TYPE OF DOCTORATE AND DISCIPLINE
October 1, 1967

Degree	No. of doctors	Distribution of Ph.D.'s			
Total*	1,922	Biological	469	Behavioral	35
M.D.	1,078	Biochemistry	162	Psychology	32
(M.D.'s with other doctorate)	(96)	Microbiology	46	Social sciences	3
Ph.D.	706	Physiology	45		
Biological	469	Bacteriology	44	Physical	155
Behavioral	35	Biology	37	Chemistry	143
Physical	155	Zoology	37	Physics	12
Other	47	Pharmacology	25		
D.D.S.	48	Biophysics	13	Other	47
D.V.M.	48	Entomology	13	Statistics	10
D.Sc.	28	Parasitology	11	Mathematics	6
D.Ed.	3	Genetics	10	Miscellaneous	31
D.Pharm.	3	Anatomy	5		
D.S.W.	2	Botany	4		
D.P.H.	2	Biostatistics	4		
L.L.P.	1	Cytology	2		
D.O.	1	Embryology	2		
O.D.	1	Immunology	2		
Eng.D.	1	Oncology	2		
		Virology	2		
		Endocrinology	1		
		Husbandry	1		
		Nutrition	1		

*Includes full-time civil service employees, commissioned officers, staff fellows, and visiting scientists at Bethesda and in the field.

CHRONOLOGY OF IMPORTANT DATES IN THE DEVELOPMENT OF NIH PROGRAMS

- 1887 Research laboratory founded at Marine Hospital, Staten Island, N.Y., to meet new responsibilities of Marine Hospital Service.
- 1891 Hygienic Laboratory moves from Staten Island to Service headquarters, Washington, D.C.
- 1902 Advisory Board for the Hygienic Laboratory established; later to become National Advisory Health Council. Act of Congress makes Service responsible for biologics control.
- 1912 Name of Public Health & Marine Hospital Service changed to Public Health Service.
- 1930 Hygienic Laboratory becomes National Institute of Health.
- 1937 Congress authorizes National Cancer Institute. First research grants.
- 1938 National Institute of Health moves to land donated by Mr. and Mrs. Luke I. Wilson at Bethesda, Md. First research fellowships (NCI).

- 1944 Public Health Service Act, giving general research authority.
- 1945 Research grants extended, with central NIH responsibility.
- 1946 Congress passes Mental Health Act.
- 1947 Division of Research Grants established to process NIH grants and fellowships to non-Federal institutions and scientists. First training grants (NCI).
- 1948 National Heart Institute authorized; other laboratories regrouped to form Microbiological Institute, Experimental Biology & Medicine Institute, and National Institute of Dental Research. NIH becomes National *Institutes* of Health.
- 1949 Mental hygiene program of Public Health Service transferred to NIH and expanded to become National Institute of Mental Health.
- 1950 "Omnibus Act." National Institute of Neurological Diseases & Blindness and National Institute of Arthritis & Metabolic Diseases established, the latter absorbing Experimental Biology & Medicine Institute.

- 1953 Public Health Service becomes a constituent of newly created Department of Health, Education, & Welfare. Clinical Center opens.
- 1955 National Microbiological Institute becomes National Institute of Allergy & Infectious Diseases. Division of Biologics Standards formed, assuming NMI's biologics control function. Division of Research Services established.
- 1956 Health Research Facilities Act, establishing program of matching grants for research construction in non-Federal institutions.
- 1958 Division of General Medical Sciences created.
- 1959 Office of Administrative Management formed, consolidating managerial activities.
- 1960 Public Health Service Act amended to provide for general support of research and research training programs in nonprofit institutions. International Health Research Act; NIH extends international programs.

- 1962 Division of Research Facilities & Resources created. National Library of Medicine, constituent of PHS since 1956, moves to NIH reservation.
- 1963 Two Institutes (authorized in 1962) established—National Institute of General Medical Sciences (superseding DGMS) and National Institute of Child Health & Human Development.
- 1964 Division of Computer Research and Technology authorized.
- 1965 Division of Regional Medical Programs created to administer the "Heart Disease, Cancer, and Stroke Amendments of 1965."
- 1966 Division of Environmental Health Sciences established.
- 1967 National Institute of Mental Health becomes separate bureau of PHS.
- 1968 John E. Fogarty International Center for Advanced Study in the Health Sciences established.







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